

Job Outlook to 2010

Columbus MSA

Delaware, Fairfield, Franklin, Licking, Madison and Pickaway Counties



Bob Taft, Governor
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Job Outlook: Columbus Metropolitan Area

These projections for the Columbus Metropolitan Statistical Area (Delaware, Fairfield, Franklin, Licking, Madison and Pickaway Counties) workforce from 2000 to 2010 provide information on where future job growth is expected by industry and occupation. This report updates the projections that were previously done for 1998 to 2008. These projections are widely used for studying long-range economic and employment trends, planning education and training programs, and developing career information. They supplement the statewide projection report, *Ohio Job Outlook to 2010* (released in December 2002), and the economic development region projection reports (released in February 2003).

The table below summarizes 2000 employment and projected 2010 levels for each of the metropolitan areas. The difference between the two levels represents new jobs expected from growth. Most job openings, however, result from the need to replace employees who leave the labor force, usually upon retirement, or transfer to another occupation.

Projected Job Growth By Metropolitan Area, 2000-2010

Metropolitan Area	Employment 2000	Projected Employment 2010	Growth 2000-2010	
			Number	Percent
Akron	342,300	379,760	37,460	10.9%
Canton-Massillon	198,210	216,700	18,490	9.3%
Cincinnati	940,220	1,074,550	134,330	14.3%
Cleveland-Lorain-Elyria	1,228,510	1,358,350	129,840	10.6%
Columbus	908,880	1,057,980	149,100	16.4%
Dayton-Springfield	498,520	541,570	43,050	8.6%
Hamilton-Middletown	138,240	160,340	22,100	16.0%
Lima	85,990	94,280	8,290	9.6%
Mansfield	87,240	92,940	5,700	6.5%
Toledo	340,620	369,100	28,480	8.4%
Youngstown-Warren	261,560	276,610	15,050	5.8%
Ohio	5,997,900	6,659,900	662,000	11.0%

Like the state and the nation, economic conditions in the Columbus metropolitan area improved throughout the decade of the 1990s with the unemployment rate falling to 2.5 percent in 2000, before rising to 4.4 percent in 2002 due to the lingering effects of the 2001 recession. When job growth resumes, the Columbus economy is expected to lead other metropolitan areas in job creation.

Industry Employment

Over the 2000-2010 period, the Columbus Metropolitan Area economy is projected to create nearly 150,000 new jobs. The number of jobs is anticipated to rise from 908,880 in 2000 to 1,057,980 by 2010. Service-producing industries will account for virtually all

of the job growth. Construction is expected to add a significant number of jobs in the goods-producing sector.

The services sector, led by health and business services, will account for almost one-half of all job growth. Large numbers of jobs are also projected in retail trade; local government, primarily in education; and by special trade contractors. Manufacturing employment is projected to decline slightly.

Occupational Employment

Office and administrative support is the largest occupational category, but is projected to grow slower than the average, reflecting the continuing impact of office automation. Professional and related occupations is the next largest occupational category. This occupational group is projected to grow at the fastest rate, 25.7 percent, and add the most new jobs, 43,100. Service occupations are expected to add 29,000 jobs, while growing 18.6 percent over the 2000-2010 period. These three groups—covering the entire spectrum of the educational attainment and earnings spectrum—are expected to provide sixty percent of the total job growth.

The other groups expected to grow faster than the average are construction and extraction occupations; and transportation and material moving occupations. Sales and related occupations; management, business and financial occupations; and installation, maintenance and repair occupations are forecast to grow somewhat slower than average. Production occupations are also projected to grow slower than average due to continuing advances in technology, changes in production methods, and an overall decline in manufacturing employment.

About forty percent of the 36,000 annual job openings in the Columbus MSA economy are expected to be generated by employment growth. The remaining sixty percent result from the need to replace existing workers who will leave the labor force, usually upon retirement. Therefore, even declining occupations provide opportunities for employment, although job prospects are generally not as favorable as in growing occupations. There are also additional job openings, not estimated, resulting from turnover when an individual stays in the same occupation, but switches employers.

Technical Notes

Projections of employment demand were made at the 2-digit industry level, based on Standard Industrial Classification, using shift-share techniques that related Ohio's metropolitan area industry employment to statewide industry employment over the past decade. State and local area projections are also partially dependent on the outlook for specific industries nationally. Because future trends are always subject to uncertainty, the job outlook will continue to be produced every other year.

Occupational estimates and projections were derived by creating an industry-occupation matrix with occupational data supplied by Ohio employers from the Occupational

Employment Statistics (OES) surveys for 1999, 2000 and 2001 under the Standard Occupational Classification (SOC) coding structure. This numeric classification uses a 6-digit structure. The titles and content of major occupational groups and many detailed occupations are substantially different than those used in the 1998-2008 projections. For example, farmers and farm managers, formerly in agriculture, forestry and fishing occupations are now classified in management, business and financial occupations. Some occupations are new and others have been split into more detailed categories. Because of these changes, occupations and occupational groups are not comparable to those in earlier analyses.

The source of the wage data is the 2001 OES estimates for Ohio. The wages were aged to 2002 using the Employment Cost Index (ECI).

Ohio industry staffing patterns were adjusted for expected technological change and other factors from national data provided by the Bureau of Labor Statistics (BLS). Net annual replacement needs were computed from national rates also supplied by the Bureau of Labor Statistics and published in Occupational Projections and Training Data, U.S. Department of Labor, Bureau of Labor Statistics, January 2002. Although these rates have been found to provide reliable estimates of Ohio net replacement needs for specific occupations, there are many additional openings resulting from turnover. Inclusion of education and training level is made possible by the classification of the SOC occupations into eleven distinct categories by the staff at the Office of Occupational Statistics and Employment Projections at BLS.

Additional Information

More information on Ohio's 2000-2010 projections is available through the industry and occupational reports that are available through the Bureau of Labor Market Information of the Ohio Department of Job and Family Services (ODJFS) Internet site at <http://lmi.state.oh.us/> or in printed form by contacting Sandy Newman, Projections Coordinator of the Bureau of Labor Market Information at (614) 466-0291 or writing to ODJFS, ORAA-Bureau of Labor Market Information, P.O. Box 1618, Columbus, Ohio 43216-1618.

October 2003

Columbus MSA
Industry Employment Projections Report, 2000-2010
Division Totals

Industry Division	2000 Annual Employment	2010 Projected Employment	Change in Employment 2000-2010	Percent Change 2000-2010
Total Employment	908,880	1,057,980	149,100	16.4%
Goods Producing Industries	143,880	155,110	11,230	7.8%
Agriculture, Forestry and Fishing	11,820	13,470	1,650	14.0%
Mining	590	530	-60	-10.2%
Construction	39,400	49,850	10,450	26.5%
Manufacturing	92,070	91,260	-810	-0.9%
Durable Goods Manufacturing	55,940	55,580	-360	-0.6%
Nondurable Goods Manufacturing	36,120	35,680	-440	-1.2%
Service Producing Industries	719,920	856,640	136,720	19.0%
Transportation, Communications & Utilities	40,690	50,690	10,000	24.6%
Trade	225,660	260,400	34,740	15.4%
Wholesale Trade	44,030	50,640	6,610	15.0%
Retail Trade	181,630	209,770	28,140	15.5%
Finance, Insurance & Real Estate	75,340	82,240	6,900	9.2%
Services	246,220	319,840	73,620	29.9%
Government	132,010	143,470	11,460	8.7%
Private Households	1,950	1,450	-500	-25.6%
Nonfarm Self-Emp. & Unpaid Family Workers	43,140	44,770	1,630	3.8%

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2003.

Columbus MSA
Industry Employment Projections Report, 2000-2010
(Industries with 1,000 or More Employees)

SIC Code	Industry Title	2000 Annual Employment	2010 Projected Employment	Change in Employment 2000-2010	Percent Change 2000-2010
	Total Employment	908,880	1,057,980	149,100	16.4%
	Agriculture, Forestry and Fishing	11,820	13,470	1,650	14.0%
01, 02	Agricultural Production	5,510	4,940	-570	-10.3%
07	Agricultural Services	6,310	8,520	2,210	35.0%
	Mining	590	530	-60	-10.2%
	Construction	39,400	49,850	10,450	26.5%
15	General Building Contractors	8,080	9,590	1,510	18.7%
16	General Contractors, Exc. Bldg	4,700	6,000	1,300	27.7%
17	Special Trade Contractors	26,630	34,270	7,640	28.7%
	Manufacturing	92,070	91,260	-810	-0.9%
	Durable Goods Manufacturing	55,940	55,580	-360	-0.6%
	Nondurable Goods Manufacturing	36,120	35,680	-440	-1.2%
20	Food and Kindred Products	10,270	9,660	-610	-5.9%
23	Apparel and Textile Products	1,140	1,100	-40	-3.5%
24	Lumber and Wood Products	1,540	1,610	70	4.5%
25	Furniture and Fixtures	1,640	1,840	200	12.2%
26	Paper and Allied Products	1,780	1,700	-80	-4.5%
27	Printing and Publishing	10,720	10,760	40	0.4%
28	Chemicals and Allied Products	6,250	6,740	490	7.8%
30	Rubber and Misc. Plastics Products	4,810	4,760	-50	-1.0%
32	Stone, Clay and Glass Products	10,140	9,980	-160	-1.6%
33	Primary Metal Industries	3,370	2,300	-1,070	-31.8%
34	Fabricated Metal Products	9,470	9,960	490	5.2%
35	Industrial Machinery and Equipment	9,820	10,850	1,030	10.5%
36	Electronic and Other Electrical Equipment	10,210	10,000	-210	-2.1%
37	Transportation Equipment	5,440	4,080	-1,360	-25.0%
38	Instruments and Related Products	2,700	2,800	100	3.7%
39	Miscellaneous Manufacturing Industries	1,620	2,160	540	33.3%
	Transportation, Communications & Utilities	40,690	50,690	10,000	24.6%
41	Local and Interurban Transit	1,070	1,280	210	19.6%
42	Trucking and Warehousing	13,390	16,280	2,890	21.6%
45	Air Transportation	7,360	9,830	2,470	33.6%
47	Transportation Services	3,260	4,700	1,440	44.2%
48	Communications	10,520	13,780	3,260	31.0%
49	Utilities and Sanitary Services	4,260	4,180	-80	-1.9%
	Trade	225,660	260,400	34,740	15.4%
	Wholesale Trade	44,030	50,640	6,610	15.0%
50	Wholesale Trade, Durable Goods	28,390	33,350	4,960	17.5%
51	Wholesale Trade, Nondurable Goods	15,650	17,280	1,630	10.4%
	Retail Trade	181,630	209,770	28,140	15.5%
52	Bldg. Materials and Garden Supplies	6,670	7,900	1,230	18.4%
53	General Merchandise Stores	21,550	22,590	1,040	4.8%
54	Food Stores	25,370	28,350	2,980	11.7%
55	Auto Dealers and Service Stations	16,000	18,420	2,420	15.1%

Columbus MSA
Industry Employment Projections Report, 2000-2010
(Industries with 1,000 or More Employees)

SIC Code	Industry Title	2000 Annual Employment	2010 Projected Employment	Change in Employment 2000-2010	Percent Change 2000-2010
56	Apparel and Accessories Stores	12,680	13,260	580	4.6%
57	Furniture and Home Furnishings Stores	9,320	12,380	3,060	32.8%
58	Eating and Drinking Places	58,290	67,720	9,430	16.2%
59	Miscellaneous Retail Stores	31,750	39,160	7,410	23.3%
	Finance, Insurance & Real Estate	75,340	82,240	6,900	9.2%
60	Depository Institutions	16,190	18,100	1,910	11.8%
61	Nondepository Institutions	8,000	7,930	-70	-0.9%
62	Security and Commodity Brokers	3,150	3,940	790	25.1%
63	Insurance Carriers	27,960	30,200	2,240	8.0%
64	Insurance Agents, Brokers and Services	4,610	4,760	150	3.3%
65	Real Estate	12,020	13,790	1,770	14.7%
67	Holding and Other Investment Offices	3,410	3,520	110	3.2%
	Services	246,220	319,840	73,620	29.9%
70	Hotels and Other Lodging Places	7,990	9,130	1,140	14.3%
72	Personal Services	9,820	11,490	1,670	17.0%
73	Business Services	75,300	112,050	36,750	48.8%
75	Auto Repair Services and Parking	8,330	11,210	2,880	34.6%
76	Miscellaneous Repair Services	1,820	1,780	-40	-2.2%
78	Motion Pictures	2,590	3,040	450	17.4%
79	Amusement and Recreation Services	9,360	11,530	2,170	23.2%
80	Private Health Services	59,050	70,430	11,380	19.3%
81	Legal Services	5,450	6,800	1,350	24.8%
82	Private Educational Services	8,860	10,480	1,620	18.3%
83	Social Services	18,550	25,660	7,110	38.3%
84	Museums, Botanical and Zoological Gardens	1,000	1,300	300	30.0%
86	Membership Organizations	15,180	16,720	1,540	10.1%
87	Engineering and Management Services	22,500	27,560	5,060	22.5%
	Government	132,010	143,470	11,460	8.7%
91	Federal Government	14,410	14,050	-360	-2.5%
43	U.S. Postal Service	5,110	5,440	330	6.5%
919	Federal Government, exc. P.O.	9,300	8,610	-690	-7.4%
92	State Government	50,650	53,840	3,190	6.3%
806	State Government Hospitals	5,670	5,920	250	4.4%
82	State Government Education	16,470	18,270	1,800	10.9%
929	State Government, except Educ. & Hospitals	28,500	29,650	1,150	4.0%
93	Local Government	66,950	75,580	8,630	12.9%
806	Local Government Hospitals	2,660	3,670	1,010	38.0%
82	Local Government Education	38,810	43,620	4,810	12.4%
939	Local Government, except Educ. & Hospitals	25,480	28,280	2,800	11.0%
	Private Households	1,950	1,450	-500	-25.6%
	Nonfarm Self-Empl. & Unpaid Family Workers	43,140	44,770	1,630	3.8%

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2003.

Columbus MSA
Occupational Employment Projections by Major Occupational Group

Occupational Group	Employment		Change in Employment		Total Annual Openings
	2000 Annual	2010 Projected	2000-2010	Percent Change	
Total, All Occupations	908,880	1,057,980	149,100	16.4%	36,342
Management, Business and Financial Occupations	98,890	113,140	14,250	14.4%	3,185
Professional and Related Occupations	167,620	210,720	43,100	25.7%	7,435
Service Occupations	155,820	184,820	29,000	18.6%	8,149
Sales and Related Occupations	97,260	112,040	14,780	15.2%	4,520
Office and Administrative Support Occupations	178,420	196,360	17,940	10.1%	5,423
Farming, Fishing, and Forestry Occupations	1,730	1,780	50	2.9%	50
Construction and Extraction Occupations	38,290	47,010	8,720	22.8%	1,594
Installation, Maintenance, and Repair Occupations	33,140	38,040	4,900	14.8%	1,189
Production Occupations	66,730	70,070	3,340	5.0%	1,843
Transportation and Material Moving Occupations	70,990	83,990	13,000	18.3%	2,954

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2003.

Columbus MSA Fastest Growing Occupations

Occupation Title	Employment Growth Rate 2000-2010	Annual Openings	Average Wage 2002
Computer Support Specialists	98.4%	516	\$21.94
Computer Software Engineers, Applications	97.4%	244	\$33.64
Computer Software Engineers, Systems Software	78.2%	172	\$31.25
Network and Computer Systems Administrators	78.0%	184	\$26.74
Network Systems and Data Communications Analysts	72.0%	57	\$29.21
Database Administrators	65.7%	71	\$30.36
Personal and Home Care Aides	56.7%	166	\$9.44
Desktop Publishers	53.7%	48	\$15.98
Social and Human Service Assistants	50.4%	82	\$12.64
Medical Assistants	49.7%	140	\$11.17
Hazardous Materials Removal Workers	44.4%	14	\$15.66
Home Health Aides	42.8%	213	\$9.27
Computer and Information Systems Managers	40.9%	124	\$39.77
Computer Systems Analysts	40.0%	201	\$29.49
Physician Assistants	40.0%	15	\$32.84
Medical Records and Health Information Technicians	40.0%	47	\$12.85
Telecommunications Line Installers and Repairers	39.7%	71	\$15.60
Substance Abuse and Behavioral Disorder Counselors	39.3%	17	\$14.95
Pharmacy Technicians	38.9%	135	\$9.57
Mental Health and Substance Abuse Social Workers	37.6%	45	\$14.77
Special Ed. Teachers, Preschool/Kindergarten/Elementary School	37.6%	59	\$42,660*
Veterinary Assistants and Laboratory Animal Caretakers	37.0%	34	\$9.53
Speech-Language Pathologists	36.8%	35	\$25.29
Education Administrators, Preschool & Child Care Center/Program	36.1%	22	\$14.21
Physical Therapist Assistants	36.0%	16	\$18.26
Occupational Therapists	33.8%	42	\$23.92
Hotel, Motel, and Resort Desk Clerks	33.6%	87	\$8.11
Computer and Information Scientists, Research	33.3%	5	\$39.11
Public Relations Specialists	33.3%	50	\$21.76
Veterinary Technologists and Technicians	33.3%	16	\$12.82

* Average Annual Salary

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2003.

Columbus MSA

Occupations with the Most Annual Job Openings

Occupational Title	Annual Openings 2000-2010	Average Wage 2002
Combined Food Preparation & Serving Workers, Inc. Fast Food	1,749	\$7.59
Cashiers	1,393	\$8.00
Retail Salespersons	1,360	\$10.27
Waiters and Waitresses	1,085	\$6.87
Laborers and Freight, Stock, and Material Movers, Hand	969	\$11.09
Customer Service Representatives	766	\$13.20
Office Clerks, General	692	\$11.48
Stock Clerks and Order Fillers	662	\$10.43
Registered Nurses	652	\$22.12
Computer Support Specialists	516	\$21.94
Truck Drivers, Heavy and Tractor-Trailer	449	\$16.80
General and Operations Managers	423	\$36.21
Janitors & Cleaners, Except Maids & Housekeeping Cleaners	385	\$10.24
Sales Rep., Wholesale/Mfg., Exc. Technical/Scientific Products	368	\$24.14
Packers and Packagers, Hand	360	\$9.06
Food Preparation Workers	350	\$8.53
Bookkeeping, Accounting, and Auditing Clerks	332	\$13.30
Cooks, Restaurant	324	\$9.39
First-Line Supervisors/Mgrs of Office & Admin. Support Workers	302	\$19.44
Landscaping and Groundskeeping Workers	295	\$10.70
First-Line Supervisors/Managers of Retail Sales Workers	293	\$16.12
Executive Secretaries and Administrative Assistants	276	\$17.80
Maids and Housekeeping Cleaners	264	\$8.62
Child Care Workers	263	\$8.79
Computer Software Engineers, Applications	244	\$33.64
Receptionists and Information Clerks	244	\$10.15
Electricians	240	\$19.83
Nursing Aides, Orderlies, and Attendants	237	\$10.64
Teacher Assistants	234	\$23,804*
Automotive Service Technicians and Mechanics	234	\$15.95

* Average Annual Salary

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2003.

Columbus MSA
Occupational* Employment Projections Report, 2000-2010

Code	Occupational Title**	Employment		Change in Employment		Total Annual Openings	Average Wage 2002	Education Training Level+
		2000 Annual	2010 Projected	2000-2010	Percent Change			
00-0000	Total, All Occupations	908,880	1,057,980	149,100	16.4%	36,342	NA	NA
11-0000	Management Occupations	57,030	65,280	8,250	14.5%	1,788	NA	NA
11-1011	Chief Executives	3,430	4,010	580	16.9%	166	\$56.36	4
11-1021	General and Operations Managers	12,840	14,910	2,070	16.1%	423	\$36.21	4
11-2011	Advertising and Promotions Managers	650	850	200	30.8%	29	\$30.46	4
11-2021	Marketing Managers	1,090	1,380	290	26.6%	45	\$39.09	4
11-2022	Sales Managers	2,570	3,350	780	30.4%	115	\$36.83	4
11-2031	Public Relations Managers	420	540	120	28.6%	18	\$28.05	4
11-3011	Administrative Services Managers	2,200	2,730	530	24.1%	89	\$26.81	4
11-3021	Computer and Information Systems Managers	2,150	3,030	880	40.9%	124	\$39.77	4
11-3031	Financial Managers	4,160	4,860	700	16.8%	134	\$37.28	4
11-3040	Human Resource Managers	1,460	1,640	180	12.3%	43	\$30.40	4
11-3051	Industrial Production Managers	1,180	1,190	10	0.8%	20	\$32.97	5
11-3061	Purchasing Managers	760	750	-10	-1.3%	24	\$29.57	4
11-3071	Transportation, Storage, & Distribution Managers	980	1,150	170	17.3%	33	\$31.24	8
11-9011	Farm, Ranch, and Other Agricultural Managers	410	370	-40	-9.8%	5	\$21.56	4
11-9012	Farmers and Ranchers	4,220	3,790	-430	-10.2%	24	NA	9
11-9021	Construction Managers	1,570	1,890	320	20.4%	58	\$32.89	5
11-9031	Education Admin., Pre & Child Care Center/Prog.	360	490	130	36.1%	22	\$14.21	4
11-9032	Education Admin., Elem. & Secondary School	1,100	1,230	130	11.8%	42	\$77,126++	4
11-9033	Education Administrators, Postsecondary	530	590	60	11.3%	20	\$31.18	4
11-9041	Engineering Managers	1,370	1,480	110	8.0%	33	\$40.10	4
11-9051	Food Service Managers	2,720	3,020	300	11.0%	62	\$17.37	8
11-9061	Funeral Directors	120	140	20	16.7%	4	NA	6
11-9081	Lodging Managers	210	210	0	0.0%	2	\$20.38	8
11-9111	Medical and Health Services Managers	1,710	2,110	400	23.4%	69	\$33.02	4
11-9121	Natural Sciences Managers	190	200	10	5.3%	4	\$33.98	4
11-9141	Property, Real Estate, & Community Assn Mgrs	1,340	1,570	230	17.2%	45	\$20.93	5
11-9151	Social and Community Service Managers	800	930	130	16.3%	28	\$22.73	5
11-9199	Managers, All Other	6,350	6,680	330	5.2%	146	NA	8
13-0000	Business and Financial Operations Occupations	41,860	47,860	6,000	14.3%	1,397	NA	NA
13-1022	Wholesale & Retail Buyers, Ex. Farm Products	1,290	1,300	10	0.8%	40	\$24.27	5
13-1023	Purchasing Agents, Ex. Whole., Retail, & Farm	1,670	1,820	150	9.0%	48	\$21.84	5
13-1031	Claims Adjusters, Examiners, and Investigators	2,420	2,880	460	19.0%	73	\$18.43	9
13-1032	Insurance Appraisers, Auto Damage	130	170	40	30.8%	6	\$20.25	9
13-1041	Compl. Off., Ex. Agric, Con, Hlth/Safety, & Trans.	1,050	1,130	80	7.6%	35	NA	9
13-1051	Cost Estimators	1,730	2,220	490	28.3%	87	\$20.51	5
13-1071	Empl., Recruitment, & Placement Specialists	1,800	2,160	360	20.0%	71	\$19.76	5
13-1072	Comp., Benefits, & Job Analysis Specialists	680	810	130	19.1%	26	\$21.65	5
13-1073	Training and Development Specialists	1,860	2,220	360	19.4%	72	\$22.09	5
13-1111	Management Analysts	3,300	3,890	590	17.9%	88	\$26.62	4
13-1121	Meeting and Convention Planners	220	280	60	27.3%	10	\$19.20	5
13-1199	Business Operations Specialists, All Other	8,630	9,880	1,250	14.5%	344	NA	5
13-2011	Accountants and Auditors	7,550	8,370	820	10.9%	194	\$23.55	5
13-2021	Appraisers and Assessors of Real Estate	350	440	90	25.7%	19	\$21.83	7
13-2031	Budget Analysts	760	800	40	5.3%	19	NA	5
13-2041	Credit Analysts	780	860	80	10.3%	24	\$22.93	5
13-2051	Financial Analysts	910	1,100	190	20.9%	31	\$25.71	5
13-2052	Personal Financial Advisors	340	440	100	29.4%	14	\$29.49	5
13-2053	Insurance Underwriters	1,340	1,540	200	14.9%	40	\$23.79	5
13-2061	Financial Examiners	300	320	20	6.7%	8	\$30.16	5
13-2071	Loan Counselors	440	460	20	4.5%	11	\$15.53	5
13-2072	Loan Officers	1,450	1,460	10	0.7%	30	\$22.36	5

*Occupations with 100 or more workers.

**See last page for abbreviations.

+See last page for Education and Training Level.

++Average Annual Salary

Columbus MSA
Occupational* Employment Projections Report, 2000-2010

Code	Occupational Title**	Employment		Change in Employment		Total Annual Openings	Average Wage 2002	Education Training Level+
		2000 Annual	2010 Projected	2000-2010	Percent Change			
13-2081	Tax Examiners, Collectors, & Revenue Agents	530	570	40	7.5%	18	NA	5
13-2082	Tax Preparers	370	400	30	8.1%	10	\$14.49	10
13-2099	Financial Specialists, All Other	1,470	1,850	380	25.9%	68	NA	5
15-0000	Computer and Mathematical Occupations	25,660	41,280	15,620	60.9%	1,811	NA	NA
15-1011	Computer and Information Scientists, Research	120	160	40	33.3%	5	\$39.11	2
15-1021	Computer Programmers	5,660	6,750	1,090	19.3%	228	\$29.11	5
15-1031	Computer Software Engineers, Applications	2,340	4,620	2,280	97.4%	244	\$33.64	5
15-1032	Comp. Software Engineers, Systems Software	2,020	3,600	1,580	78.2%	172	\$31.25	5
15-1041	Computer Support Specialists	5,030	9,980	4,950	98.4%	516	\$21.94	6
15-1051	Computer Systems Analysts	4,120	5,770	1,650	40.0%	201	\$29.49	5
15-1061	Database Administrators	1,020	1,690	670	65.7%	71	\$30.36	5
15-1071	Network and Computer Systems Administrators	2,230	3,970	1,740	78.0%	184	\$26.74	5
15-1081	Network Systems & Data Comm. Analysts	750	1,290	540	72.0%	57	\$29.21	5
15-1099	Computer Specialists, All Other	1,890	2,890	1,000	52.9%	117	NA	7
15-2011	Actuaries	210	230	20	9.5%	5	\$37.54	4
15-2031	Operations Research Analysts	170	170	0	0.0%	5	\$26.21	3
17-0000	Architecture and Engineering Occupations	14,380	15,830	1,450	10.1%	430	NA	NA
17-1011	Architects, Except Landscape and Naval	1,420	1,580	160	11.3%	24	\$26.28	5
17-1012	Landscape Architects	130	160	30	23.1%	4	\$23.37	5
17-1022	Surveyors	300	300	0	0.0%	9	\$17.69	5
17-2041	Chemical Engineers	130	140	10	7.7%	3	\$31.52	5
17-2051	Civil Engineers	1,250	1,330	80	6.4%	28	\$27.96	5
17-2061	Computer Hardware Engineers	490	540	50	10.2%	12	\$35.23	5
17-2071	Electrical Engineers	780	850	70	9.0%	21	\$31.07	5
17-2072	Electronics Engineers, Except Computer	370	420	50	13.5%	12	\$29.14	5
17-2081	Environmental Engineers	150	180	30	20.0%	6	\$27.01	5
17-2111	Health & Safety Engineers, Ex. Mining Safety	180	200	20	11.1%	5	\$26.05	5
17-2112	Industrial Engineers	1,430	1,490	60	4.2%	30	\$29.44	5
17-2141	Mechanical Engineers	930	1,000	70	7.5%	34	\$29.45	5
17-2161	Nuclear Engineers	530	630	100	18.9%	22	NA	5
17-2199	Engineers, All Other	940	960	20	2.1%	21	NA	5
17-3011	Architectural and Civil Drafters	890	1,030	140	15.7%	41	\$17.08	7
17-3012	Electrical and Electronics Drafters	320	390	70	21.9%	17	\$20.49	7
17-3013	Mechanical Drafters	460	540	80	17.4%	22	\$19.61	7
17-3022	Civil Engineering Technicians	690	740	50	7.2%	19	\$20.11	6
17-3023	Electrical & Electronic Engineering Technicians	890	930	40	4.5%	22	\$20.46	6
17-3024	Electro-Mechanical Technicians	230	250	20	8.7%	7	\$17.76	6
17-3026	Industrial Engineering Technicians	230	240	10	4.3%	6	\$19.66	6
17-3027	Mechanical Engineering Technicians	390	440	50	12.8%	13	\$20.07	6
17-3031	Surveying and Mapping Technicians	320	370	50	15.6%	15	\$16.09	10
17-3099	Drafters, Engin., & Mapping Tech., All Other	570	690	120	21.1%	24	NA	6
19-0000	Life, Physical, and Social Science Occupations	7,460	8,870	1,410	18.9%	357	NA	NA
19-1022	Microbiologists	110	140	30	27.3%	7	\$19.83	2
19-1042	Medical Scientists, Except Epidemiologists	100	110	10	10.0%	3	\$21.78	2
19-1099	Life Scientists, All Other	630	760	130	20.6%	36	NA	5
19-2031	Chemists	470	580	110	23.4%	26	\$27.12	5
19-2041	Environmental Scientists/Specialists, Inc. Health	620	680	60	9.7%	26	NA	5
19-2042	Geoscientists, Ex. Hydrologists & Geographers	130	160	30	23.1%	7	\$28.29	5
19-2099	Physical Scientists, All Other	140	150	10	7.1%	7	NA	5
19-3021	Market Research Analysts	1,100	1,290	190	17.3%	43	\$24.77	5
19-3022	Survey Researchers	200	210	10	5.0%	5	NA	5
19-3031	Clinical, Counseling, and School Psychologists	1,210	1,420	210	17.4%	49	\$21.92	2
19-3051	Urban and Regional Planners	120	140	20	16.7%	4	NA	3

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Code	Occupational Title**	Employment		Change in Employment		Total Annual Openings	Average Wage 2002	Education Training Level+
		2000 Annual	2010 Projected	2000-2010	Percent Change			
19-3099	Social Scientists & Related Workers, All Other	190	220	30	15.8%	8	NA	3
19-4031	Chemical Technicians	630	740	110	17.5%	26	\$16.08	6
19-4091	Environ. Science & Protection Tech., Inc. Health	140	170	30	21.4%	8	\$13.88	6
19-4099	Life, Physical, & Social Science Tech., All Other	1,000	1,310	310	31.0%	67	NA	6
21-0000	Community and Social Services Occupations	12,800	15,890	3,090	24.1%	540	NA	NA
21-1011	Substance Abuse & Behavioral Dis. Counselors	280	390	110	39.3%	17	\$14.95	3
21-1012	Educational, Vocational, & School Counselors	830	1,030	200	24.1%	37	\$25.30	3
21-1014	Mental Health Counselors	140	170	30	21.4%	6	\$17.40	3
21-1015	Rehabilitation Counselors	600	680	80	13.3%	20	\$19.45	3
21-1021	Child, Family, and School Social Workers	2,220	2,830	610	27.5%	86	\$16.87	5
21-1022	Medical and Public Health Social Workers	630	820	190	30.2%	26	\$17.85	5
21-1023	Mental Health & Substance Abuse Social Work.	930	1,280	350	37.6%	45	\$14.77	3
21-1091	Health Educators	160	190	30	18.8%	5	\$21.47	3
21-1092	Probation Officers & Correct. Treatment Spec.	310	360	50	16.1%	10	\$21.23	5
21-1093	Social and Human Service Assistants	1,250	1,880	630	50.4%	82	\$12.64	10
21-2011	Clergy	3,130	3,590	460	14.7%	131	NA	3
21-2021	Directors, Religious Activities and Education	810	930	120	14.8%	26	\$30.41	5
21-9099	Counselors, Social, & Religious Work., All Other	1,190	1,420	230	19.3%	44	NA	5
23-0000	Legal Occupations	10,370	11,970	1,600	15.4%	270	NA	NA
23-1011	Lawyers	4,510	5,420	910	20.2%	121	\$35.66	1
23-1021	Admin. Law Judges, Adjudicators, & Hearing Off.	790	750	-40	-5.1%	22	NA	4
23-1023	Judges, Magistrate Judges, and Magistrates	660	630	-30	-4.5%	19	NA	4
23-2011	Paralegals and Legal Assistants	1,010	1,290	280	27.7%	34	\$19.36	6
23-2091	Court Reporters	120	140	20	16.7%	3	\$21.25	7
23-2092	Law Clerks	360	400	40	11.1%	7	\$10.74	5
23-2093	Title Examiners, Abstractors, and Searchers	140	140	0	0.0%	1	\$19.29	10
23-2099	Legal Support Workers, All Other	1,820	1,900	80	4.4%	25	NA	5
23-9099	Legal and Related Workers, All Other	930	1,290	360	38.7%	45	NA	5
25-0000	Education, Training, and Library Occupations	41,020	48,740	7,720	18.8%	1,655	NA	NA
25-1011	Business Teachers, Postsecondary	360	450	90	25.0%	19	\$54,929++	2
25-1021	Computer Science Teachers, Postsecondary	180	230	50	27.8%	10	\$48,810++	2
25-1022	Mathematical Science Teachers, Postsecondary	260	320	60	23.1%	13	\$58,470++	2
25-1032	Engineering Teachers, Postsecondary	410	510	100	24.4%	21	NA	2
25-1041	Agricultural Sciences Teachers, Postsecondary	370	450	80	21.6%	18	NA	2
25-1042	Biological Science Teachers, Postsecondary	310	380	70	22.6%	16	\$48,140++	2
25-1052	Chemistry Teachers, Postsecondary	130	160	30	23.1%	7	\$57,770++	2
25-1054	Physics Teachers, Postsecondary	120	150	30	25.0%	6	\$64,345++	2
25-1066	Psychology Teachers, Postsecondary	170	210	40	23.5%	9	\$55,578++	2
25-1071	Health Specialties Teachers, Postsecondary	1,570	1,940	370	23.6%	80	\$63,219++	2
25-1072	Nursing Instructors & Teachers, Postsecondary	200	240	40	20.0%	9	\$52,615++	3
25-1081	Education Teachers, Postsecondary	230	280	50	21.7%	11	\$39,251++	2
25-1112	Law Teachers, Postsecondary	160	200	40	25.0%	9	NA	2
25-1121	Art, Drama, and Music Teachers, Postsecondary	370	450	80	21.6%	18	\$47,480++	2
25-1122	Communications Teachers, Postsecondary	170	210	40	23.5%	9	\$52,179++	2
25-1123	English Language & Literature Teachers, Post.	340	420	80	23.5%	17	\$47,744++	2
25-1124	Foreign Language & Literature Teachers, Post.	200	240	40	20.0%	9	\$45,197++	2
25-1125	History Teachers, Postsecondary	120	150	30	25.0%	6	\$47,653++	2
25-1126	Philosophy & Religion Teachers, Postsecondary	140	170	30	21.4%	7	\$46,354++	2
25-1191	Graduate Teaching Assistants	150	180	30	20.0%	7	\$33,710++	5
25-1193	Recreation & Fitness Studies Teachers, Post.	150	190	40	26.7%	8	\$43,584++	3
25-1194	Vocational Education Teachers, Postsecondary	960	1,190	230	24.0%	49	\$18.44	8
25-1199	Postsecondary Teachers, All Other	630	780	150	23.8%	32	NA	2
25-2011	Preschool Teachers, Except Special Education	2,180	2,610	430	19.7%	70	\$9.12	5

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25-2012	Kindergarten Teachers, Ex. Special Education	830	960	130	15.7%	23	\$44,172++	5
25-2021	Elementary School Teachers, Ex.Special Ed.	6,170	6,940	770	12.5%	217	\$45,745++	5
25-2022	Middle School Teachers, Ex. Special & Voc. Ed.	3,240	3,540	300	9.3%	104	\$44,842++	5
25-2023	Vocational Education Teachers, Middle School	170	190	20	11.8%	6	\$44,142++	5
25-2031	Secondary Sch. Teachers, Ex. Spec. & Voc. Ed.	3,950	4,660	710	18.0%	191	\$46,293++	5
25-2032	Vocational Education Teachers, Secondary Sch.	810	910	100	12.3%	35	\$52,331++	5
25-2041	Special Ed. Teachers, Pre./Kinder./Elem. Sch.	1,170	1,610	440	37.6%	59	\$42,660++	5
25-2042	Special Education Teachers, Middle School	510	630	120	23.5%	18	\$44,852++	5
25-2043	Special Education Teachers, Secondary School	780	970	190	24.4%	29	\$46,851++	5
25-3011	Adult Literacy, Remedial Ed., & GED Teachers	1,060	1,220	160	15.1%	27	\$15.85	5
25-3021	Self-Enrichment Education Teachers	1,170	1,360	190	16.2%	31	\$12.79	8
25-3999	Teachers, Prim., Secondary, & Adult, All Other	2,670	3,180	510	19.1%	78	NA	5
25-4010	Archivists, Curators, & Museum Technicians	270	360	90	33.3%	15	\$16.65	3
25-4021	Librarians	820	880	60	7.3%	23	\$22.61	3
25-4031	Library Technicians	640	770	130	20.3%	41	\$12.95	11
25-9021	Farm and Home Management Advisors	100	100	0	0.0%	2	NA	5
25-9031	Instructional Coordinators	450	560	110	24.4%	18	\$24.16	3
25-9041	Teacher Assistants	5,130	6,400	1,270	24.8%	234	\$23,804++	11
25-9199	Lib., Museum, Training, & Other Ed. Work., AO	310	350	40	12.9%	9	NA	5
27-0000	Arts, Design, Entertainment, Sports, & Media Occ.	12,990	15,280	2,290	17.6%	462	NA	NA
27-1011	Art Directors	210	250	40	19.0%	8	\$30.52	4
27-1013	Fine Artists, Inc. Painters, Sculptors, & Illustrators	150	170	20	13.3%	5	\$14.45	9
27-1014	Multi-Media Artists and Animators	220	290	70	31.8%	12	\$21.09	5
27-1021	Commercial and Industrial Designers	590	710	120	20.3%	18	\$23.96	5
27-1023	Floral Designers	580	700	120	20.7%	18	\$11.96	10
27-1024	Graphic Designers	930	1,110	180	19.4%	27	\$17.73	5
27-1025	Interior Designers	1,330	1,450	120	9.0%	25	\$19.33	5
27-1026	Merchandise Displayers and Window Trimmers	470	510	40	8.5%	9	\$13.97	10
27-1099	Art and Design Workers, All Other	830	940	110	13.3%	25	NA	5
27-2012	Producers and Directors	360	470	110	30.6%	18	\$49,155++	4
27-2022	Coaches and Scouts	540	630	90	16.7%	20	\$33,304++	9
27-2041	Music Directors and Composers	370	420	50	13.5%	12	\$42,954++	4
27-2042	Musicians and Singers	860	1,000	140	16.3%	30	NA	9
27-3010	Announcers	390	400	10	2.6%	7	\$16.95	9
27-3020	News Analysts, Reports & Correspondents	440	460	20	4.5%	16	\$20.31	9
27-3031	Public Relations Specialists	990	1,320	330	33.3%	50	\$21.76	5
27-3041	Editors	580	730	150	25.9%	34	\$22.78	5
27-3042	Technical Writers	330	430	100	30.3%	20	\$22.37	5
27-3043	Writers and Authors	330	370	40	12.1%	9	\$17.55	5
27-3099	Media and Communication Workers, All Other	470	570	100	21.3%	19	NA	9
27-4011	Audio and Video Equipment Technicians	220	250	30	13.6%	10	\$12.53	9
27-4012	Broadcast Technicians	190	230	40	21.1%	10	\$14.27	7
27-4021	Photographers	490	540	50	10.2%	15	\$15.39	9
27-4099	Media & Communication Equip. Workers, AO	140	150	10	7.1%	7	NA	10
29-0000	Healthcare Practitioners and Technical Occupations	42,940	52,860	9,920	23.1%	1,910	NA	NA
29-1011	Chiropractors	180	210	30	16.7%	6	\$46.35	1
29-1020	Dentists	1,140	1,220	80	7.0%	28	NA	1
29-1031	Dietitians and Nutritionists	330	370	40	12.1%	13	\$20.43	5
29-1041	Optometrists	200	250	50	25.0%	8	\$46.79	1
29-1051	Pharmacists	1,860	2,340	480	25.8%	103	\$30.36	1
29-1061	Anesthesiologists	120	140	20	16.7%	4	NA	1
29-1062	Family and General Practitioners	1,100	1,300	200	18.2%	36	\$60.94	1
29-1063	Internists, General	470	550	80	17.0%	15	\$68.69	1

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29-1064	Obstetricians and Gynecologists	270	330	60	22.2%	10	\$70.88	1
29-1065	Pediatricians, General	390	460	70	17.9%	13	NA	1
29-1066	Psychiatrists	100	120	20	20.0%	4	\$59.86	1
29-1067	Surgeons	320	370	50	15.6%	9	\$69.49	1
29-1069	Physicians and Surgeons, All Other	790	930	140	17.7%	26	NA	1
29-1071	Physician Assistants	250	350	100	40.0%	15	\$32.84	5
29-1111	Registered Nurses	15,630	18,990	3,360	21.5%	652	\$22.12	6
29-1122	Occupational Therapists	710	950	240	33.8%	42	\$23.92	5
29-1123	Physical Therapists	700	890	190	27.1%	37	\$25.96	3
29-1125	Recreational Therapists	250	300	50	20.0%	11	\$14.35	5
29-1126	Respiratory Therapists	500	640	140	28.0%	27	\$17.89	6
29-1127	Speech-Language Pathologists	570	780	210	36.8%	35	\$25.29	3
29-1131	Veterinarians	380	500	120	31.6%	19	\$38.20	1
29-1199	Health Diagnosing & Treating Practitioners, AO	680	870	190	27.9%	34	NA	1
29-2011	Medical and Clinical Laboratory Technologists	830	930	100	12.0%	29	\$19.58	5
29-2012	Medical and Clinical Laboratory Technicians	790	900	110	13.9%	30	\$13.95	6
29-2021	Dental Hygienists	1,290	1,680	390	30.2%	58	\$25.68	6
29-2031	Cardiovascular Technologists and Technicians	100	130	30	30.0%	5	\$20.16	6
29-2032	Diagnostic Medical Sonographers	240	290	50	20.8%	10	\$24.01	6
29-2034	Radiologic Technologists and Technicians	1,240	1,450	210	16.9%	48	\$17.28	6
29-2041	Emergency Medical Technicians & Paramedics	620	800	180	29.0%	34	\$13.01	7
29-2051	Dietetic Technicians	180	210	30	16.7%	8	\$12.47	10
29-2052	Pharmacy Technicians	2,080	2,890	810	38.9%	135	\$9.57	10
29-2054	Respiratory Therapy Technicians	170	220	50	29.4%	9	\$17.18	7
29-2055	Surgical Technologists	320	410	90	28.1%	17	\$13.74	7
29-2056	Veterinary Technologists and Technicians	270	360	90	33.3%	16	\$12.82	6
29-2061	Licensed Practical & Licensed Vocat. Nurses	4,580	5,530	950	20.7%	213	\$16.58	7
29-2071	Medical Records & Health Info. Technicians	750	1,050	300	40.0%	47	\$12.85	6
29-2081	Opticians, Dispensing	1,000	1,190	190	19.0%	38	\$15.84	9
29-9010	Occupational Health & Safety Specialists & Tech.	350	450	100	28.6%	19	\$25.77	5
29-9091	Athletic Trainers	140	160	20	14.3%	6	\$32,736++	5
29-9099	Healthcare Practitioners & Tech. Workers, AO	1,000	1,240	240	24.0%	24	NA	6
31-0000	Healthcare Support Occupations	18,620	23,780	5,160	27.7%	831	NA	NA
31-1011	Home Health Aides	3,830	5,470	1,640	42.8%	213	\$9.27	11
31-1012	Nursing Aides, Orderlies, and Attendants	8,120	9,450	1,330	16.4%	237	\$10.64	11
31-1013	Psychiatric Aides	130	140	10	7.7%	3	NA	11
31-2011	Occupational Therapist Assistants	150	200	50	33.3%	9	\$18.81	6
31-2021	Physical Therapist Assistants	250	340	90	36.0%	16	\$18.26	6
31-9011	Massage Therapists	230	290	60	26.1%	11	\$17.74	7
31-9091	Dental Assistants	1,500	1,940	440	29.3%	71	\$14.29	10
31-9092	Medical Assistants	1,830	2,740	910	49.7%	140	\$11.17	10
31-9093	Medical Equipment Preparers	200	220	20	10.0%	7	\$12.41	11
31-9094	Medical Transcriptionists	410	500	90	22.0%	20	\$13.78	7
31-9095	Pharmacy Aides	500	630	130	26.0%	26	\$8.29	11
31-9096	Vet. Assistants & Laboratory Animal Caretakers	540	740	200	37.0%	34	\$9.53	11
31-9099	Healthcare Support Workers, All Other	840	980	140	16.7%	36	NA	11
33-0000	Protective Service Occupations	16,970	20,500	3,530	20.8%	828	NA	NA
33-1011	First-Line Superv./Mgrs of Correctional Officers	250	310	60	24.0%	10	\$22.30	8
33-1012	First-Line Superv./Mgrs of Police & Detectives	590	660	70	11.9%	23	\$27.27	8
33-1021	FL Sup/Mgrs of Fire Fighting & Prev. Workers	400	430	30	7.5%	16	NA	8
33-1099	First-Line Sup/Mgrs, Protective Serv. Work., AO	300	360	60	20.0%	15	NA	8
33-2011	Fire Fighters	2,360	2,550	190	8.1%	80	\$12.10	9
33-3012	Correctional Officers and Jailers	3,170	2,800	-370	-11.7%	77	\$17.71	10

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33-3021	Detectives and Criminal Investigators	500	560	60	12.0%	17	\$26.27	8
33-3051	Police and Sheriff's Patrol Officers	3,130	3,810	680	21.7%	134	\$20.45	9
33-9021	Private Detectives and Investigators	360	380	20	5.6%	12	\$16.78	8
33-9032	Security Guards	3,830	4,890	1,060	27.7%	211	\$10.08	11
33-9091	Crossing Guards	920	1,080	160	17.4%	47	\$9.11	11
33-9099	Protective Service Workers, All Other	820	1,000	180	22.0%	81	NA	11
35-0000	Food Preparation and Serving Related Occupations	73,130	83,960	10,830	14.8%	4,465	NA	NA
35-1011	Chefs and Head Cooks	440	450	10	2.3%	15	\$15.67	7
35-1012	FL Sup/Mgrs of Food Prep. & Serving Workers	4,850	5,240	390	8.0%	162	\$12.13	8
35-2011	Cooks, Fast Food	3,170	3,010	-160	-5.0%	90	\$8.05	11
35-2012	Cooks, Institution and Cafeteria	2,040	2,160	120	5.9%	70	\$11.04	9
35-2014	Cooks, Restaurant	6,790	8,100	1,310	19.3%	324	\$9.39	9
35-2015	Cooks, Short Order	640	740	100	15.6%	28	\$8.57	11
35-2021	Food Preparation Workers	6,020	7,200	1,180	19.6%	350	\$8.53	11
35-3011	Bartenders	1,930	2,120	190	9.8%	95	\$7.78	11
35-3021	Comb. Food Prep. & Serv. Work, Inc. Fast Food	19,940	25,220	5,280	26.5%	1,749	\$7.59	11
35-3022	Counter Attend., Café/Food Concess/Coffee Sh.	1,700	2,010	310	18.2%	163	\$9.29	11
35-3031	Waiters and Waitresses	15,170	17,480	2,310	15.2%	1,085	\$6.87	11
35-3041	Food Servers, Nonrestaurant	1,470	1,620	150	10.2%	80	\$7.77	11
35-9011	Dining Room & Cafeteria Attend. & Bar Helpers	3,070	2,780	-290	-9.4%	103	\$7.19	11
35-9021	Dishwashers	2,900	2,580	-320	-11.0%	109	\$8.09	11
35-9031	Hosts & Hostesses, Rest./Lounge/Coffee Shop	2,290	2,510	220	9.6%	90	\$7.64	11
35-9099	Food Prep. & Serving Related Workers, AO	700	720	20	2.9%	28	NA	11
37-0000	Building & Grounds Cleaning & Maintenance Occup.	28,290	33,270	4,980	17.6%	1,087	NA	NA
37-1011	FL Sup/Mgrs of Housekping & Janitorial Workers	1,370	1,550	180	13.1%	55	\$13.37	8
37-1012	FL Sup/Mgrs of Lndscap./Lawn Ser/Groundskp	1,050	1,150	100	9.5%	16	\$16.45	8
37-2011	Janitors & Cleaners, Ex. Maids/Hsekp Clean.	12,070	13,740	1,670	13.8%	385	\$10.24	11
37-2012	Maids and Housekeeping Cleaners	6,080	7,400	1,320	21.7%	264	\$8.62	11
37-2021	Pest Control Workers	450	560	110	24.4%	20	\$24.92	10
37-3011	Landscaping and Groundskeeping Workers	5,160	6,820	1,660	32.2%	295	\$10.70	11
37-3012	Pesticide Handlers/Sprayers/Applicators, Veg.	210	250	40	19.0%	9	\$13.36	10
37-3013	Tree Trimmers and Pruners	300	350	50	16.7%	13	\$12.03	11
37-9099	Building & Grounds Cleaning & Maint. Work., AO	590	700	110	18.6%	23	NA	11
39-0000	Personal Care and Service Occupations	18,810	23,310	4,500	23.9%	938	NA	NA
39-1021	First-Line Sup/Mgrs of Personal Serv. Workers	920	1,110	190	20.7%	44	\$16.27	8
39-2021	Nonfarm Animal Caretakers	1,020	1,260	240	23.5%	46	\$8.82	11
39-3031	Ushers, Lobby Attendants, and Ticket Takers	320	350	30	9.4%	29	\$7.11	11
39-3091	Amusement and Recreation Attendants	580	700	120	20.7%	31	\$7.95	11
39-3093	Locker Room/Coatroom/Dressing Rm Attendants	290	340	50	17.2%	14	\$7.11	8
39-4021	Funeral Attendants	150	190	40	26.7%	7	\$10.08	11
39-5011	Barbers	100	110	10	10.0%	4	\$14.48	7
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,550	4,060	510	14.4%	138	\$12.45	7
39-5092	Manicurists and Pedicurists	310	410	100	32.3%	18	\$11.64	7
39-5094	Skin Care Specialists	160	180	20	12.5%	6	\$14.77	7
39-6011	Baggage Porters and Bellhops	180	200	20	11.1%	8	\$10.84	11
39-9011	Child Care Workers	5,230	6,310	1,080	20.7%	263	\$8.79	11
39-9021	Personal and Home Care Aides	2,310	3,620	1,310	56.7%	166	\$9.44	11
39-9031	Fitness Trainers and Aerobics Instructors	1,200	1,570	370	30.8%	62	\$12.43	7
39-9032	Recreation Workers	1,140	1,340	200	17.5%	44	\$9.09	5
39-9041	Residential Advisors	290	330	40	13.8%	11	\$10.48	10
39-9099	Personal Care and Service Workers, All Other	500	600	100	20.0%	25	NA	10
41-0000	Sales and Related Occupations	97,260	112,040	14,780	15.2%	4,520	NA	NA
41-1011	First-Line Superv./Mgrs of Retail Sales Workers	10,380	11,810	1,430	13.8%	293	\$16.12	8

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41-1012	First-Line Sup./Mgrs of Non-Retail Sales Workers	4,300	4,750	450	10.5%	108	\$29.06	8
41-2011	Cashiers	21,690	25,780	4,090	18.9%	1,393	\$8.00	11
41-2021	Counter and Rental Clerks	2,400	2,990	590	24.6%	168	\$10.07	11
41-2022	Parts Salespersons	1,650	1,730	80	4.8%	57	\$13.76	10
41-2031	Retail Salespersons	24,460	28,760	4,300	17.6%	1,360	\$10.27	11
41-3011	Advertising Sales Agents	690	890	200	29.0%	34	\$24.10	10
41-3021	Insurance Sales Agents	5,410	4,800	-610	-11.3%	138	\$21.40	5
41-3031	Securities/Commodities/Fin. Serv. Sales Agents	2,040	2,570	530	26.0%	70	\$29.23	5
41-3041	Travel Agents	550	610	60	10.9%	19	\$12.91	7
41-4011	Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	2,380	2,680	300	12.6%	94	\$29.88	10
41-4012	Sales Rep., Wholesale/Mfg, Ex. Tech./Sci. Prod.	9,570	10,650	1,080	11.3%	368	\$24.14	10
41-9011	Demonstrators and Product Promoters	430	530	100	23.3%	24	\$14.89	10
41-9021	Real Estate Brokers	320	350	30	9.4%	9	NA	8
41-9022	Real Estate Sales Agents	1,930	2,110	180	9.3%	52	\$18.49	7
41-9031	Sales Engineers	780	900	120	15.4%	32	\$27.95	5
41-9041	Telemarketers	3,360	3,950	590	17.6%	128	\$10.36	11
41-9091	Door-To-Door Sales, News/St. Vendors, & Rel.	280	320	40	14.3%	11	\$17.50	11
41-9099	Sales and Related Workers, All Other	4,650	5,870	1,220	26.2%	224	NA	10
43-0000	Office and Administrative Support Occupations	178,420	196,360	17,940	10.1%	5,423	NA	NA
43-1011	First-Line Sup/Mgrs of Office & Admin. Support	10,180	11,230	1,050	10.3%	302	\$19.44	8
43-2011	Switchboard Operators, Inc. Answering Service	2,070	1,760	-310	-15.0%	61	\$10.44	11
43-2021	Telephone Operators	180	120	-60	-33.3%	5	NA	11
43-3011	Bill and Account Collectors	4,590	5,770	1,180	25.7%	233	\$13.86	11
43-3021	Billing & Posting Clerks & Machine Operators	3,310	3,590	280	8.5%	109	\$12.67	11
43-3031	Bookkeeping, Accounting, and Auditing Clerks	12,790	13,680	890	7.0%	332	\$13.30	10
43-3051	Payroll and Timekeeping Clerks	1,380	1,440	60	4.3%	46	\$15.35	11
43-3061	Procurement Clerks	800	700	-100	-12.5%	18	\$15.67	11
43-3071	Tellers	1,330	1,320	-10	-0.8%	64	\$10.21	11
43-4011	Brokerage Clerks	510	540	30	5.9%	10	NA	10
43-4021	Correspondence Clerks	430	470	40	9.3%	17	\$13.09	11
43-4031	Court, Municipal, and License Clerks	590	660	70	11.9%	16	NA	11
43-4041	Credit Authorizers, Checkers, and Clerks	820	840	20	2.4%	10	\$12.48	11
43-4051	Customer Service Representatives	18,330	24,440	6,110	33.3%	766	\$13.20	10
43-4061	Eligibility Interviewers, Government Programs	720	620	-100	-13.9%	21	NA	10
43-4071	File Clerks	1,630	1,720	90	5.5%	61	\$10.39	11
43-4081	Hotel, Motel, and Resort Desk Clerks	1,130	1,510	380	33.6%	87	\$8.11	11
43-4111	Interviewers, Except Eligibility and Loan	1,150	1,440	290	25.2%	53	\$10.57	11
43-4121	Library Assistants, Clerical	490	580	90	18.4%	31	\$8.99	11
43-4131	Loan Interviewers and Clerks	1,610	1,140	-470	-29.2%	11	\$17.78	11
43-4141	New Accounts Clerks	660	750	90	13.6%	23	\$11.61	8
43-4151	Order Clerks	2,860	2,730	-130	-4.5%	61	\$13.23	11
43-4161	Human Resources Assis., Ex. Payroll & Timekp	1,320	1,560	240	18.2%	54	\$15.11	11
43-4171	Receptionists and Information Clerks	5,490	6,720	1,230	22.4%	244	\$10.15	11
43-4181	Reservation/Trans. Ticket Agents & Travel Clerks	1,180	1,360	180	15.3%	50	\$13.23	11
43-4199	Information and Record Clerks, All Other	580	550	-30	-5.2%	8	NA	11
43-4999	Financial, Info., & Record Clerks, All Other	1,780	2,110	330	18.5%	56	NA	11
43-5011	Cargo and Freight Agents	250	290	40	16.0%	9	\$14.79	10
43-5021	Couriers and Messengers	1,010	940	-70	-6.9%	27	\$11.29	11
43-5031	Police, Fire, and Ambulance Dispatchers	570	640	70	12.3%	16	\$15.48	10
43-5032	Dispatchers, Except Police, Fire, & Ambulance	1,020	1,270	250	24.5%	42	\$14.85	10
43-5041	Meter Readers, Utilities	230	150	-80	-34.8%	6	\$15.17	11
43-5051	Postal Service Clerks	310	340	30	9.7%	10	\$18.95	11
43-5052	Postal Service Mail Carriers	1,790	1,970	180	10.1%	72	\$18.54	11

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43-5053	Postal Service Mail Sorters/Proc/Proc Mach. Op.	1,610	1,650	40	2.5%	39	\$15.22	11
43-5061	Production, Planning, and Expediting Clerks	1,920	2,200	280	14.6%	60	\$16.01	11
43-5071	Shipping, Receiving, and Traffic Clerks	6,420	7,220	800	12.5%	209	\$12.01	11
43-5081	Stock Clerks and Order Fillers	15,240	16,440	1,200	7.9%	662	\$10.43	11
43-5111	Weighers/Meas./Checkers/Samplers, Recordkp	450	490	40	8.9%	15	\$13.88	11
43-5199	Material Rec./Sched./Dispatch/Distrib. Work, AO	220	220	0	0.0%	8	NA	11
43-6011	Executive Secretaries & Admin. Assistants	10,350	11,350	1,000	9.7%	276	\$17.80	10
43-6012	Legal Secretaries	1,230	1,420	190	15.4%	40	\$17.48	7
43-6013	Medical Secretaries	2,210	2,530	320	14.5%	70	\$11.53	7
43-6014	Secretaries, Ex. Legal, Medical, & Executive	13,090	13,040	-50	-0.4%	223	\$12.95	10
43-9011	Computer Operators	4,410	4,320	-90	-2.0%	79	\$11.77	10
43-9021	Data Entry Keyers	4,230	4,460	230	5.4%	90	\$11.30	10
43-9022	Word Processors and Typists	2,740	2,480	-260	-9.5%	55	\$13.20	10
43-9031	Desktop Publishers	670	1,030	360	53.7%	48	\$15.98	7
43-9041	Insurance Claims and Policy Processing Clerks	4,930	3,860	-1,070	-21.7%	85	\$15.84	10
43-9051	Mail Clerks & Mail Machine Op., Ex. Postal Serv.	1,380	1,430	50	3.6%	45	\$10.95	11
43-9061	Office Clerks, General	19,900	23,000	3,100	15.6%	692	\$11.48	11
43-9071	Office Machine Operators, Except Computer	790	680	-110	-13.9%	28	\$12.13	11
43-9081	Proofreaders and Copy Markers	110	110	0	0.0%	4	\$13.17	11
43-9111	Statistical Assistants	140	140	0	0.0%	1	\$14.73	10
43-9199	Office & Admin. Support Workers, All Other	910	850	-60	-6.6%	15	NA	11
43-9999	Secret./Admin. Assis/Other Off. Sup. Work., AO	2,390	2,500	110	4.6%	49	NA	11
45-0000	Farming, Fishing, and Forestry Occupations	1,730	1,780	50	2.9%	50	NA	NA
45-1011	FL Sup/Mgrs of Farming/Fishing/Forestry Wrks.	150	150	0	0.0%	5	\$18.56	10
45-2041	Graders and Sorters, Agricultural Products	110	110	0	0.0%	3	\$9.01	8
45-2091	Agricultural Equipment Operators	580	540	-40	-6.9%	20	NA	10
45-2092	Farmworkers/Laborers, Crop/Nursery/Greenhse	420	470	50	11.9%	12	\$10.13	9
47-0000	Construction and Extraction Occupations	38,290	47,010	8,720	22.8%	1,594	NA	NA
47-1011	First-Line Sup/Mgrs of Con. Trades/Extract. Work	3,930	4,630	700	17.8%	160	\$26.40	8
47-2021	Brickmasons and Blockmasons	1,080	1,320	240	22.2%	44	\$20.18	9
47-2031	Carpenters	5,750	6,700	950	16.5%	192	\$15.52	9
47-2041	Carpet Installers	150	170	20	13.3%	5	NA	10
47-2043	Floor Sanders and Finishers	510	600	90	17.6%	18	\$12.06	10
47-2051	Cement Masons and Concrete Finishers	1,150	1,340	190	16.5%	29	\$15.70	9
47-2061	Construction Laborers	4,480	5,850	1,370	30.6%	178	\$14.25	10
47-2071	Paving, Surfacing, & Tamping Equip. Operators	230	300	70	30.4%	12	\$17.05	10
47-2073	Operating Engineers & Other Con. Equip. Op.	2,210	2,600	390	17.6%	87	\$18.74	10
47-2081	Drywall and Ceiling Tile Installers	540	680	140	25.9%	19	\$11.74	10
47-2082	Tapers	140	180	40	28.6%	5	\$17.16	10
47-2111	Electricians	4,780	6,290	1,510	31.6%	240	\$19.83	9
47-2130	Insulation Workers	670	870	200	29.9%	40	\$15.43	10
47-2141	Painters, Construction and Maintenance	2,150	2,510	360	16.7%	74	\$15.78	10
47-2151	Pipelayers	210	260	50	23.8%	8	\$14.57	10
47-2152	Plumbers, Pipefitters, and Steamfitters	3,350	4,080	730	21.8%	128	\$22.17	9
47-2161	Plasterers and Stucco Masons	180	230	50	27.8%	8	\$16.71	9
47-2181	Roofers	770	980	210	27.3%	39	\$16.38	10
47-2211	Sheet Metal Workers	790	990	200	25.3%	36	\$18.28	10
47-2221	Structural Iron and Steel Workers	910	1,160	250	27.5%	35	\$18.56	9
47-3011	Helpers--Brick/Block/Stone/Tile & Marble Setters	170	220	50	29.4%	13	\$13.23	11
47-3013	Helpers--Electricians	600	770	170	28.3%	47	\$11.16	11
47-3015	Helpers--Pipelayers/Plumbers/Pipefitters/Steamf	420	530	110	26.2%	32	\$11.12	11
47-4011	Construction and Building Inspectors	530	570	40	7.5%	16	\$18.85	8
47-4041	Hazardous Materials Removal Workers	180	260	80	44.4%	14	\$15.66	10

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47-4051	Highway Maintenance Workers	1,010	1,080	70	6.9%	22	\$13.37	10
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	120	120	0	0.0%	3	\$11.61	10
47-4999	Construction Trades & Related Workers, AO	540	680	140	25.9%	38	NA	8
49-0000	Installation, Maintenance, and Repair Occupations	33,140	38,040	4,900	14.8%	1,189	NA	NA
49-1011	FL Sup/Mgrs of Mechanics/Installers/Repairers	2,610	3,090	480	18.4%	116	\$23.19	8
49-2011	Computer, ATM, & Office Machine Repairers	1,320	1,550	230	17.4%	37	\$17.05	7
49-2022	Telecomm. Equip. Install/Repair, Ex. Line Install	1,010	1,060	50	5.0%	24	\$18.85	7
49-2092	Electric Motor, Power Tool, & Related Repairers	180	180	0	0.0%	4	\$16.32	7
49-2094	Electrical/Electronics Repair, Comm/Indus Equip.	170	190	20	11.8%	5	\$18.07	7
49-2095	Electrical/Electronics Repair, Pwrhse/Substa/Rly	130	120	-10	-7.7%	3	\$23.50	7
49-2098	Security and Fire Alarm Systems Installers	150	190	40	26.7%	7	\$17.10	7
49-3011	Aircraft Mechanics and Service Technicians	660	790	130	19.7%	28	\$21.14	7
49-3021	Automotive Body and Related Repairers	1,000	1,230	230	23.0%	48	\$19.10	9
49-3022	Automotive Glass Installers and Repairers	160	200	40	25.0%	8	\$16.26	9
49-3023	Automotive Service Technicians and Mechanics	4,960	6,130	1,170	23.6%	234	\$15.95	7
49-3031	Bus & Truck Mechanics & Diesel Engine Spec.	1,890	2,150	260	13.8%	74	\$17.43	7
49-3041	Farm Equipment Mechanics	100	120	20	20.0%	5	\$12.74	7
49-3042	Mobile Heavy Equip. Mechanics, Ex. Engines	420	490	70	16.7%	18	\$17.47	7
49-3053	Outdoor Power Equip. & Other Sm Engine Mech.	130	140	10	7.7%	4	\$14.16	10
49-3093	Tire Repairers and Changers	420	490	70	16.7%	23	\$8.90	11
49-3099	Vehicle & Mobile Equip. Mech/Install/Repair, AO	190	230	40	21.1%	11	NA	10
49-9011	Mechanical Door Repairers	160	190	30	18.8%	8	\$16.41	10
49-9012	Control & Valve Install/Repair, Ex. Mech. Door	120	130	10	8.3%	5	\$20.66	10
49-9021	Heating, AC, & Refrigeration Mechanics/Installers	1,570	2,020	450	28.7%	61	\$14.52	9
49-9031	Home Appliance Repairers	150	170	20	13.3%	5	\$16.89	9
49-9041	Industrial Machinery Mechanics	740	790	50	6.8%	25	\$17.94	9
49-9042	Maintenance and Repair Workers, General	8,430	8,630	200	2.4%	129	\$15.34	9
49-9043	Maintenance Workers, Machinery	570	570	0	0.0%	15	\$16.90	9
49-9044	Millwrights	260	340	80	30.8%	16	\$20.30	9
49-9051	Electrical Power-Line Installers and Repairers	450	490	40	8.9%	19	\$22.61	9
49-9052	Telecommunications Line Installers & Repairers	1,210	1,690	480	39.7%	71	\$15.60	9
49-9062	Medical Equipment Repairers	130	140	10	7.7%	4	\$18.11	10
49-9091	Coin/Vending/Amusement Machine Serv/Repair	300	330	30	10.0%	10	\$13.57	10
49-9098	Helpers--Installation/Maintenance/Repair Workers	1,020	1,270	250	24.5%	77	\$11.46	11
49-9099	Installation/Maintenance/Repair Workers, AO	1,720	2,050	330	19.2%	68	NA	9
51-0000	Production Occupations	66,730	70,070	3,340	5.0%	1,843	NA	NA
51-1011	FL Sup/Mgrs of Production/Operating Workers	4,170	4,200	30	0.7%	113	\$21.94	8
51-2021	Coil Winders, Tapers, and Finishers	170	170	0	0.0%	4	NA	11
51-2022	Electrical & Electronic Equipment Assemblers	1,060	1,170	110	10.4%	38	\$10.09	11
51-2023	Electromechanical Equipment Assemblers	200	210	10	5.0%	6	\$15.95	11
51-2041	Structural Metal Fabricators and Fitters	380	450	70	18.4%	13	\$14.03	10
51-2092	Team Assemblers	8,060	8,250	190	2.4%	160	\$12.86	10
51-2099	Assemblers and Fabricators, All Other	3,280	3,550	270	8.2%	84	NA	10
51-3011	Bakers	1,500	1,910	410	27.3%	65	\$8.60	9
51-3021	Butchers and Meat Cutters	600	550	-50	-8.3%	15	\$12.49	9
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	170	190	20	11.8%	6	\$9.72	11
51-3092	Food Batchmakers	1,050	1,050	0	0.0%	26	\$11.72	11
51-3093	Food Cooking Machine Operators and Tenders	120	120	0	0.0%	2	\$12.53	11
51-3099	Food Processing Workers, All Other	150	130	-20	-13.3%	4	NA	11
51-4011	Computer-Controlled Machine Tool Oper., M/P	740	850	110	14.9%	37	\$13.57	9
51-4021	Extruding & Drawing Machine Setters, O/T, M/P	670	690	20	3.0%	17	\$14.24	10
51-4022	Forging Mach. Setters/Operators/Tenders, M/P	350	390	40	11.4%	15	\$10.90	10
51-4023	Rolling Machine Setters/Operators/Tenders, M/P	370	320	-50	-13.5%	12	\$12.23	10

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Occupational* Employment Projections Report, 2000-2010

Code	Occupational Title**	Employment		Change in Employment		Total Annual Openings	Average Wage 2002	Education Training Level+
		2000 Annual	2010 Projected	2000-2010	Percent Change			
51-4031	Cutting/Punching/Press Machine S/O/T, M/P	2,400	2,340	-60	-2.5%	47	\$12.48	10
51-4032	Drilling & Boring Machine Tool Setters, O/T, M/P	160	140	-20	-12.5%	5	\$12.36	10
51-4033	Grind/Lapping/Polish/Buf Mach.Tool S/O/T, M/P	480	420	-60	-12.5%	12	\$12.04	10
51-4034	Lathe & Turning Machine Tool Setters, O/T, M/P	330	320	-10	-3.0%	13	\$12.12	10
51-4041	Machinists	1,630	1,830	200	12.3%	54	\$16.04	9
51-4051	Metal-Refining Furnace Operators and Tenders	110	90	-20	-18.2%	3	\$18.69	10
51-4071	Foundry Mold and Coremakers	330	210	-120	-36.4%	7	\$19.39	10
51-4072	Molding/Coremaking/Casting Mach. S/O/T, M/P	890	870	-20	-2.2%	18	\$12.47	10
51-4081	Multiple Machine Tool Setters, O/T, M/P	1,060	1,030	-30	-2.8%	16	\$18.78	10
51-4111	Tool and Die Makers	520	510	-10	-1.9%	13	\$18.45	9
51-4121	Welders, Cutters, Solderers, and Brazers	2,180	2,690	510	23.4%	112	\$14.45	7
51-4122	Welding/Soldering/Brazing Machine Setters, O/T	260	250	-10	-3.8%	7	NA	10
51-4191	Heat Treating Equip. Setters, O/T, M/P	120	110	-10	-8.3%	2	\$13.18	10
51-4192	Lay-Out Workers, Metal and Plastic	120	110	-10	-8.3%	3	\$17.22	10
51-4193	Plating & Coating Machine Setters, O/T, M/P	440	450	10	2.3%	10	\$16.80	10
51-4194	Tool Grinders, Filers, and Sharpeners	170	140	-30	-17.6%	4	\$13.67	10
51-4199	Metal Workers and Plastic Workers, All Other	610	660	50	8.2%	17	NA	10
51-5011	Bindery Workers	990	1,060	70	7.1%	33	\$12.47	10
51-5021	Job Printers	410	430	20	4.9%	12	\$16.37	9
51-5022	Prepress Technicians and Workers	770	660	-110	-14.3%	19	\$16.66	9
51-5023	Printing Machine Operators	1,600	1,700	100	6.3%	50	\$16.26	10
51-5099	Printing Workers, All Other	340	370	30	8.8%	12	NA	10
51-6011	Laundry and Dry-Cleaning Workers	1,260	1,470	210	16.7%	54	\$8.84	10
51-6021	Pressers, Textile, Garment, & Related Materials	370	440	70	18.9%	12	\$10.35	11
51-6031	Sewing Machine Operators	690	690	0	0.0%	7	\$11.29	10
51-6052	Tailors, Dressmakers, and Custom Sewers	170	170	0	0.0%	4	\$11.85	8
51-6091	Extrud/Form Mach S/O/T, Synthetic/Glass Fibers	330	300	-30	-9.1%	8	\$13.06	10
51-6093	Upholsterers	700	560	-140	-20.0%	23	\$13.56	9
51-7011	Cabinetmakers and Bench Carpenters	530	610	80	15.1%	25	\$14.16	9
51-7042	Woodworking Machine Setters, O/T, Ex. Sawing	120	140	20	16.7%	7	\$12.76	10
51-7099	Woodworkers, All Other	230	260	30	13.0%	12	NA	10
51-8021	Stationary Engineers and Boiler Operators	330	320	-10	-3.0%	9	\$19.25	9
51-8031	Water/Liquid Waste Treatment Plant/System Op.	590	680	90	15.3%	27	\$16.22	9
51-8091	Chemical Plant and System Operators	290	290	0	0.0%	9	\$18.67	9
51-8099	Plant and System Operators, All Other	190	220	30	15.8%	9	NA	9
51-9011	Chemical Equipment Operators and Tenders	440	530	90	20.5%	20	\$21.93	10
51-9012	Sep./Filter/Clarify/Precipitating/Still Mach. S/O/T	250	240	-10	-4.0%	6	\$13.13	10
51-9021	Crushing/Grinding/Polishing Machine S/O/T	170	180	10	5.9%	5	\$13.36	10
51-9022	Grinding and Polishing Workers, Hand	180	210	30	16.7%	7	\$11.85	10
51-9023	Mixing/Blending Mach. Setter/Operator/Tenders	630	720	90	14.3%	23	\$14.20	10
51-9032	Cutting/Slicing Mach. Setters/Operators/Tenders	380	380	0	0.0%	7	\$12.72	10
51-9041	Extrud/Form/Pressing/Compacting Mach. S/O/T	540	560	20	3.7%	14	\$14.74	10
51-9051	Furnace/Kiln/Oven/Drier/Kettle Oper./Tenders	100	100	0	0.0%	3	\$14.97	10
51-9061	Inspectors/Testers/Sorters/Samplers/Weighers	3,730	3,380	-350	-9.4%	82	\$15.03	10
51-9071	Jewelers & Precious Stone & Metal Workers	200	200	0	0.0%	5	\$19.08	7
51-9081	Dental Laboratory Technicians	340	350	10	2.9%	10	\$20.01	9
51-9083	Ophthalmic Laboratory Technicians	140	140	0	0.0%	4	\$10.44	10
51-9111	Packaging & Filling Machine Operators/Tenders	3,560	4,220	660	18.5%	144	\$10.12	11
51-9121	Coating/Painting/Spraying Machine Setters, O/T	980	1,130	150	15.3%	37	\$13.75	10
51-9122	Painters, Transportation Equipment	210	250	40	19.0%	9	\$17.47	10
51-9123	Painting, Coating, and Decorating Workers	240	290	50	20.8%	10	\$11.87	11
51-9132	Photographic Processing Machine Operators	150	170	20	13.3%	6	\$8.41	11
51-9191	Cementing/Gluing Machine Operators/Tenders	110	110	0	0.0%	3	\$11.33	10

*Occupations with 100 or more workers.

**See last page for abbreviations.

+See last page for Education and Training Level.

++Average Annual Salary

Columbus MSA
Occupational* Employment Projections Report, 2000-2010

Code	Occupational Title**	Employment		Change in Employment		Total Annual Openings	Average Wage 2002	Education Training Level+
		2000 Annual	2010 Projected	2000-2010	Percent Change			
51-9194	Etchers and Engravers	130	160	30	23.1%	6	\$9.93	9
51-9195	Molders/Shapers/Casters, Ex. Metal & Plastic	210	230	20	9.5%	8	NA	10
51-9196	Paper Goods Mach. Setters/Operators/Tenders	440	410	-30	-6.8%	9	\$14.60	10
51-9198	Helpers--Production Workers	3,590	3,880	290	8.1%	119	\$11.30	11
51-9199	Production Workers, All Other	3,370	3,570	200	5.9%	80	NA	10
53-0000	Transportation and Material Moving Occupations	70,990	83,990	13,000	18.3%	2,954	NA	NA
53-1021	FL Sup/Mgrs of Help/Labor/Mat. Movers, Hand	1,970	2,350	380	19.3%	80	\$17.36	8
53-1031	FL Sup/Mgr of Trans/Mat.-Mov. Mach & Veh Op	1,280	1,560	280	21.9%	56	\$19.52	8
53-2012	Commercial Pilots	400	450	50	12.5%	14	\$36,562++	7
53-3021	Bus Drivers, Transit and Intercity	700	800	100	14.3%	28	NA	10
53-3022	Bus Drivers, School	2,790	2,910	120	4.3%	83	\$13.88	11
53-3031	Driver/Sales Workers	3,000	3,260	260	8.7%	67	\$10.81	11
53-3032	Truck Drivers, Heavy and Tractor-Trailer	11,730	14,610	2,880	24.6%	449	\$16.80	10
53-3033	Truck Drivers, Light or Delivery Services	5,630	6,980	1,350	24.0%	212	\$12.55	11
53-3041	Taxi Drivers and Chauffeurs	1,220	1,490	270	22.1%	37	\$7.97	11
53-3099	Motor Vehicle Operators, All Other	1,040	1,260	220	21.2%	40	NA	11
53-4031	Railroad Conductors and Yardmasters	150	130	-20	-13.3%	6	NA	8
53-6021	Parking Lot Attendants	570	730	160	28.1%	26	NA	11
53-6031	Service Station Attendants	430	520	90	20.9%	31	\$9.38	11
53-6051	Transportation Inspectors	110	120	10	9.1%	4	\$23.68	8
53-6099	Transportation Workers, All Other	130	160	30	23.1%	8	NA	11
53-7011	Conveyor Operators and Tenders	850	1,050	200	23.5%	44	NA	11
53-7021	Crane and Tower Operators	580	730	150	25.9%	32	14.36	10
53-7032	Excavating & Loading Machine & Dragline Oper.	320	400	80	25.0%	18	\$20.94	10
53-7041	Hoist and Winch Operators	160	170	10	6.3%	4	\$20.03	10
53-7051	Industrial Truck and Tractor Operators	7,000	7,560	560	8.0%	153	12.96	11
53-7061	Cleaners of Vehicles and Equipment	1,220	1,520	300	24.6%	77	10.31	11
53-7062	Laborers/Freight/Stock/Material Movers, Hand	18,450	21,980	3,530	19.1%	969	\$11.09	11
53-7063	Machine Feeders and Offbearers	1,060	900	-160	-15.1%	37	\$14.36	11
53-7064	Packers and Packagers, Hand	7,720	9,350	1,630	21.1%	360	\$9.06	11
53-7081	Refuse and Recyclable Material Collectors	310	350	40	12.9%	17	\$14.27	11
53-7199	Material Moving Workers, All Other	1,140	1,410	270	23.7%	65	NA	11

+ Education/Training Levels

- 1 First Professional Degree
- 2 Doctor's Degree
- 3 Master's Degree
- 4 Work Experience plus Degree
- 5 Bachelor's Degree
- 6 Associate Degree
- 7 Postsecondary Vocational Training
- 8 Work Experience in a Related Occupation
- 9 Long-Term On-The-Job Training
- 10 Moderate-Term On-The-Job Training
- 11 Short-Term On-The-Job Training
- NA Not Available/Applicable

****Abbreviations**

- AO = All Other
- FL Sup/Mgrs = First-Line Supervisors/Managers
- M/P = Metal and Plastic
- O/T = Operators and Tenders
- S/O/T = Setters, Operators and Tenders
- PS = Postsecondary

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, August 2003.

*Occupations with 100 or more workers.

**See last page for abbreviations.

+See last page for Education and Training Level.

++Average Annual Salary

Columbus MSA
Occupations with High Employment Prospects By Education/Training Level
(Occupations paying \$12.00 or more an hour & having at least 50 annual openings)

		Employment		Change in Employment		Total	Average
		2000	2010				
Code	Occupational Title*	Annual	Projected	2000-2010	Percent Change	Annual Openings	Wage 2002
Short-Term On-The-Job Training							
43-3011	Bill and Account Collectors	4,590	5,770	1,180	25.7%	233	\$13.86
43-3021	Billing & Posting Clerks & Machine Operators	3,310	3,590	280	8.5%	109	\$12.67
43-4151	Order Clerks	2,860	2,730	-130	-4.5%	61	\$13.23
43-4161	Human Resources Assis., Ex. Payroll & Timekp	1,320	1,560	240	18.2%	54	\$15.11
43-4181	Reservation/Trans. Ticket Agents & Travel Clerks	1,180	1,360	180	15.3%	50	\$13.23
43-5052	Postal Service Mail Carriers	1,790	1,970	180	10.1%	72	\$18.54
43-5061	Production, Planning, and Expediting Clerks	1,920	2,200	280	14.6%	60	\$16.01
43-5071	Shipping, Receiving, and Traffic Clerks	6,420	7,220	800	12.5%	209	\$12.01
53-3022	Bus Drivers, School	2,790	2,910	120	4.3%	83	\$13.88
53-3033	Truck Drivers, Light or Delivery Services	5,630	6,980	1,350	24.0%	212	\$12.55
53-7051	Industrial Truck and Tractor Operators	7,000	7,560	560	8.0%	153	12.96
Moderate-Term On-The-Job Training							
21-1093	Social and Human Service Assistants	1,250	1,880	630	50.4%	82	\$12.64
31-9091	Dental Assistants	1,500	1,940	440	29.3%	71	\$14.29
33-3012	Correctional Officers and Jailers	3,170	2,800	-370	-11.7%	77	\$17.71
41-2022	Parts Salespersons	1,650	1,730	80	4.8%	57	\$13.76
41-4011	Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	2,380	2,680	300	12.6%	94	\$29.88
41-4012	Sales Rep., Wholesale/Mfg, Ex. Tech./Sci. Prod.	9,570	10,650	1,080	11.3%	368	\$24.14
43-3031	Bookkeeping, Accounting, and Auditing Clerks	12,790	13,680	890	7.0%	332	\$13.30
43-4051	Customer Service Representatives	18,330	24,440	6,110	33.3%	766	\$13.20
43-6011	Executive Secretaries & Admin. Assistants	10,350	11,350	1,000	9.7%	276	\$17.80
43-6014	Secretaries, Ex. Legal, Medical, & Executive	13,090	13,040	-50	-0.4%	223	\$12.95
43-9022	Word Processors and Typists	2,740	2,480	-260	-9.5%	55	\$13.20
43-9041	Insurance Claims and Policy Processing Clerks	4,930	3,860	-1,070	-21.7%	85	\$15.84
47-2061	Construction Laborers	4,480	5,850	1,370	30.6%	178	\$14.25
47-2073	Operating Engineers & Other Con. Equip. Op.	2,210	2,600	390	17.6%	87	\$18.74
47-2141	Painters, Construction and Maintenance	2,150	2,510	360	16.7%	74	\$15.78
51-2092	Team Assemblers	8,060	8,250	190	2.4%	160	\$12.86
51-5023	Printing Machine Operators	1,600	1,700	100	6.3%	50	\$16.26
51-9061	Inspectors/Testers/Sorters/Samplers/Weighers	3,730	3,380	-350	-9.4%	82	\$15.03
53-3032	Truck Drivers, Heavy and Tractor-Trailer	11,730	14,610	2,880	24.6%	449	\$16.80
Long-Term On-The-Job Training							
13-1031	Claims Adjusters, Examiners, and Investigators	2,420	2,880	460	19.0%	73	\$18.43
33-2011	Fire Fighters	2,360	2,550	190	8.1%	80	\$12.10
33-3051	Police and Sheriff's Patrol Officers	3,130	3,810	680	21.7%	134	\$20.45
47-2031	Carpenters	5,750	6,700	950	16.5%	192	\$15.52
47-2111	Electricians	4,780	6,290	1,510	31.6%	240	\$19.83
47-2152	Plumbers, Pipefitters, and Steamfitters	3,350	4,080	730	21.8%	128	\$22.17
49-9021	Heating, AC, & Refrigeration Mechanics/Installers	1,570	2,020	450	28.7%	61	\$14.52
49-9042	Maintenance and Repair Workers, General	8,430	8,630	200	2.4%	129	\$15.34
49-9052	Telecommunications Line Installers & Repairers	1,210	1,690	480	39.7%	71	\$15.60
51-4041	Machinists	1,630	1,830	200	12.3%	54	\$16.04

Columbus MSA
Occupations with High Employment Prospects By Education/Training Level
(Occupations paying \$12.00 or more an hour & having at least 50 annual openings)

		Employment		Change in Employment		Total	Average
		2000	2010			Annual	Wage
Code	Occupational Title*	Annual	Projected	2000-2010	Percent Change	Openings	2002
Work Experience in a Related Occupation							
11-9051	Food Service Managers	2,720	3,020	300	11.0%	62	\$17.37
35-1012	FL Sup/Mgrs of Food Prep. & Serving Workers	4,850	5,240	390	8.0%	162	\$12.13
37-1011	FL Sup/Mgrs of Housekping & Janitorial Workers	1,370	1,550	180	13.1%	55	\$13.37
41-1011	First-Line Superv./Mgrs of Retail Sales Workers	10,380	11,810	1,430	13.8%	293	\$16.12
41-1012	First-Line Sup./Mgrs of Non-Retail Sales Workers	4,300	4,750	450	10.5%	108	\$29.06
43-1011	First-Line Sup/Mgrs of Office & Admin. Support	10,180	11,230	1,050	10.3%	302	\$19.44
47-1011	First-Line Sup/Mgrs of Con. Trades/Extract. Work	3,930	4,630	700	17.8%	160	\$26.40
49-1011	FL Sup/Mgrs of Mechanics/Installers/Repairers	2,610	3,090	480	18.4%	116	\$23.19
51-1011	FL Sup/Mgrs of Production/Operating Workers	4,170	4,200	30	0.7%	113	\$21.94
53-1021	FL Sup/Mgrs of Help/Labor/Mat. Movers, Hand	1,970	2,350	380	19.3%	80	\$17.36
53-1031	FL Sup/Mgr of Trans/Mat.-Mov. Mach & Veh Op	1,280	1,560	280	21.9%	56	\$19.52
Postsecondary Vocational Training							
29-2061	Licensed Practical & Licensed Vocat. Nurses	4,580	5,530	950	20.7%	213	\$16.58
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,550	4,060	510	14.4%	138	\$12.45
39-9031	Fitness Trainers and Aerobics Instructors	1,200	1,570	370	30.8%	62	\$12.43
41-9022	Real Estate Sales Agents	1,930	2,110	180	9.3%	52	\$18.49
49-3023	Automotive Service Technicians and Mechanics	4,960	6,130	1,170	23.6%	234	\$15.95
49-3031	Bus & Truck Mechanics & Diesel Engine Spec.	1,890	2,150	260	13.8%	74	\$17.43
51-4121	Welders, Cutters, Solderers, and Brazers	2,180	2,690	510	23.4%	112	\$14.45
Associate Degree							
15-1041	Computer Support Specialists	5,030	9,980	4,950	98.4%	516	\$21.94
29-1111	Registered Nurses**	15,630	18,990	3,360	21.5%	652	\$22.12
29-2021	Dental Hygienists	1,290	1,680	390	30.2%	58	\$25.68
Bachelor's Degree							
11-9021	Construction Managers	1,570	1,890	320	20.4%	58	\$32.89
13-1051	Cost Estimators	1,730	2,220	490	28.3%	87	\$20.51
13-1071	Empl., Recruitment, & Placement Specialists	1,800	2,160	360	20.0%	71	\$19.76
13-1073	Training and Development Specialists	1,860	2,220	360	19.4%	72	\$22.09
13-2011	Accountants and Auditors	7,550	8,370	820	10.9%	194	\$23.55
15-1021	Computer Programmers	5,660	6,750	1,090	19.3%	228	\$29.11
15-1031	Computer Software Engineers, Applications	2,340	4,620	2,280	97.4%	244	\$33.64
15-1032	Comp. Software Engineers, Systems Software	2,020	3,600	1,580	78.2%	172	\$31.25
15-1051	Computer Systems Analysts	4,120	5,770	1,650	40.0%	201	\$29.49
15-1061	Database Administrators	1,020	1,690	670	65.7%	71	\$30.36
15-1071	Network and Computer Systems Administrators	2,230	3,970	1,740	78.0%	184	\$26.74
15-1081	Network Systems & Data Comm. Analysts	750	1,290	540	72.0%	57	\$29.21
21-1021	Child, Family, and School Social Workers	2,220	2,830	610	27.5%	86	\$16.87
25-2021	Elementary School Teachers, Ex.Special Ed.	6,170	6,940	770	12.5%	217	\$45,745+
25-2022	Middle School Teachers, Ex. Special & Voc. Ed.	3,240	3,540	300	9.3%	104	\$44,842+
25-2031	Secondary Sch. Teachers, Ex. Spec. & Voc. Ed.	3,950	4,660	710	18.0%	191	\$46,293+
25-2041	Special Ed. Teachers, Pre./Kinder./Elem. Sch.	1,170	1,610	440	37.6%	59	\$42,660+
27-3031	Public Relations Specialists	990	1,320	330	33.3%	50	\$21.76

Columbus MSA
Occupations with High Employment Prospects By Education/Training Level
(Occupations paying \$12.00 or more an hour & having at least 50 annual openings)

Code	Occupational Title*	Employment		Change in Employment		Total Annual Openings	Average Wage 2002
		2000 Annual	2010 Projected	2000-2010	Percent Change		
41-3021	Insurance Sales Agents	5,410	4,800	-610	-11.3%	138	\$21.40
41-3031	Securities/Commodities/Fin. Serv. Sales Agents	2,040	2,570	530	26.0%	70	\$29.23
Work Experience plus Degree							
11-1011	Chief Executives	3,430	4,010	580	16.9%	166	\$56.36
11-1021	General and Operations Managers	12,840	14,910	2,070	16.1%	423	\$36.21
11-2022	Sales Managers	2,570	3,350	780	30.4%	115	\$36.83
11-3011	Administrative Services Managers	2,200	2,730	530	24.1%	89	\$26.81
11-3021	Computer and Information Systems Managers	2,150	3,030	880	40.9%	124	\$39.77
11-3031	Financial Managers	4,160	4,860	700	16.8%	134	\$37.28
11-9111	Medical and Health Services Managers	1,710	2,110	400	23.4%	69	\$33.02
13-1111	Management Analysts	3,300	3,890	590	17.9%	88	\$26.62
Doctor's Degree							
25-1071	Health Specialties Teachers, Postsecondary	1,570	1,940	370	23.6%	80	\$63,219+
First Professional Degree							
23-1011	Lawyers	4,510	5,420	910	20.2%	121	\$35.66
29-1051	Pharmacists	1,860	2,340	480	25.8%	103	\$30.36

***Abbreviations**

FL Sup/Mgrs = First-Line Supervisors/Managers

M/P = Metal and Plastic

O/T = Operators and Tenders

S/O/T = Setters, Operators and Tenders

**Training is met through a two-year associate degree; a three-year diploma; or a four-year bachelor's program.

+Average Annual Salary

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, October 2003.

Dictionary of Occupations Standard Occupational Classification (SOC)

A		Audio-Visual Collections Specialists	25-9011
Abstractors, Title Examiners, and Searchers	23-2093	Auditors and Accountants	13-2011
AC, Heating, & Refrigeration Mechanics/Installers	49-9021	Automotive Body and Related Repairers	49-3021
Accountants and Auditors	13-2011	Automotive Glass Installers and Repairers	49-3022
Accounting, Bookkeeping, and Auditing Clerks	43-3031	Automotive Service Technicians and Mechanics	49-3023
Actors	27-2011	Avionics Technicians	49-2091
Actuaries	15-2011	B	
Adjudicators, Admin. Law Judges, & Hearing Off.	23-1021	Baggage Porters and Bellhops	39-6011
Admin. Assistants & Executive Secretaries	43-6011	Bailiffs	33-3011
Admin. Law Judges, Adjudicators, & Hearing Off.	23-1021	Bakers	51-3011
Administrative Services Managers	11-3011	Bar Helpers & Dining Room & Cafeteria Attend.	35-9011
Auditing, Bookkeeping, and Accounting Clerks	43-3031	Barbers	39-5011
Adult Literacy, Remedial Ed., & GED Teachers	25-3011	Bartenders	35-3011
Advertising and Promotions Managers	11-2011	Behavioral Dis. & Substance Abuse Counselors	21-1011
Advertising Sales Agents	41-3011	Bellhops and Baggage Porters	39-6011
Aerobics Instructors and Fitness Trainers	39-9031	Bench Carpenters and Cabinetmakers	51-7011
Aerospace Engineering & Operations Tech.	17-3021	Benefits, Comp., & Job Analysis Specialists	13-1072
Aerospace Engineers	17-2011	Bicycle Repairers	49-3091
Agricultural and Food Science Technicians	19-4011	Bill and Account Collectors	43-3011
Agricultural and Food Scientists	19-1010	Billing & Posting Clerks & Machine Operators	43-3021
Agricultural Equipment Operators	45-2091	Bindery Workers	51-5011
Agricultural Inspectors	45-2011	Biochemists and Biophysicists	19-1021
Agricultural Sciences Teachers, Postsecondary	25-1041	Biological Science Teachers, Postsecondary	25-1042
Air Traffic Controllers	53-2021	Biological Technicians	19-4021
Air Transportation Workers, All Other	53-2099	Biomedical Engineers	17-2031
Aircraft Cargo Handling Supervisors	53-1011	Boilermakers	47-2011
Aircraft Mechanics and Service Technicians	49-3011	Bookbinders	51-5012
Aircraft Structure/Surfaces/Rigging/Sys. Assemb.	51-2011	Bookkeeping, Accounting, and Auditing Clerks	43-3031
Airfield Operations Specialists	53-2022	Boring & Drilling Machine Tool Setters, O/T, M/P	51-4032
Airline Pilots, Copilots, and Flight Engineers	53-2011	Brazers, Welders, Cutters, and Solderers	51-4121
Ambulance Drivers & Attendants, Except EMT	53-3011	Brick/Block/Stone/Tile & Marble Setters--Helpers	47-3011
Ambulance, Police, and Fire Dispatchers	43-5031	Brickmasons and Blockmasons	47-2021
Amusement and Recreation Attendants	39-3091	Bridge and Lock Tenders	53-6011
Amusement/Coin/Vending Machine Serv/Repair	49-9091	Broadcast Technicians	27-4012
Anesthesiologists	29-1061	Brokerage Clerks	43-4011
Animal Breeders	45-2021	Budget Analysts	13-2031
Animal Control Workers	33-9011	Building & Grounds Cleaning & Maint. Work., AO	37-9099
Animal Trainers	39-2011	Building and Construction Inspectors	47-4011
Animators and Multi-Media Artists	27-1014	Bus & Truck Mechanics & Diesel Engine Spec.	49-3031
Announcers	27-3010	Bus Drivers, School	53-3022
Answering Service and Switchboard Operators	43-2011	Bus Drivers, Transit and Intercity	53-3021
Anthropology & Archeology Teachers, Postsec.	25-1061	Business Operations Specialists, All Other	13-1199
Apparel and Fabric Patternmakers	51-6092	Business Teachers, Postsecondary	25-1011
Appraisers and Assessors of Real Estate	13-2021	Butchers and Meat Cutters	51-3021
Arbitrators, Mediators, and Conciliators	23-1022	Buyers and Purchasing Agents, Farm Products	13-1021
Archeology & Anthropology Teachers, Postsec.	25-1061	C	
Architects, Except Landscape and Naval	17-1011	Cabinetmakers and Bench Carpenters	51-7011
Architects, Surveyors, & Cartograph., All Other	17-1099	Camera & Photographic Equipment Repairers	49-9061
Architectural and Civil Drafters	17-3011	Camera Operators, TV, Video, & Motion Picture	27-4031
Architecture Teachers, Postsecondary	25-1031	Captains, Mates, and Pilots of Water Vessels	53-5021
Archivists, Curators, and Museum Technicians	25-4010	Cardiovascular Technologists and Technicians	29-2031
Area, Ethnic, & Cultural Studies Teachers, Post.	25-1062	Cargo and Freight Agents	43-5011
Art and Design Workers, All Other	27-1099	Carpenters	47-2031
Art Directors	27-1011	Carpenter's Helpers	47-3012
Art, Drama, and Music Teachers, Postsecondary	25-1121	Carpenters, Bench and Cabinetmakers	51-7011
Artists, Inc. Painters, Sculptors, & Illustrators	27-1013	Carpet Installers	47-2041
Assemblers and Fabricators, All Other	51-2099	Cashiers	41-2011
Assessors and Appraisers of Real Estate	13-2021	Casters and Pourers, Metal	51-4052
Athletes and Sports Competitors	27-2021	Ceiling Tile and Drywall Installers	47-2081
Athletic Trainers	29-9091	Cement Masons and Concrete Finishers	47-2051
ATM, Computer, & Office Machine Repairers	49-2011	Cementing/Gluing Machine Operators/Tenders	51-9191
Atmos./Earth/ Marine/Space Sci. Teachers, PS	25-1051	Chauffeurs and Taxi Drivers	53-3041
Atmospheric and Space Scientists	19-2021	Chefs and Head Cooks	35-1011
Audio and Video Equipment Technicians	27-4011	Chemical Engineers	17-2041
Audiologists	29-1121	Chemical Equipment Operators and Tenders	51-9011

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Chemical Plant and System Operators	51-8091	Conveyor Operators and Tenders	53-7011
Chemical Technicians	19-4031	Cooks, Fast Food	35-2011
Chemistry Teachers, Postsecondary	25-1052	Cooks, Institution and Cafeteria	35-2012
Chemists	19-2031	Cooks, Restaurant	35-2014
Chief Executives	11-1011	Cooks, Short Order	35-2015
Child Care Workers	39-9011	Cooling/Freezing Equipment Operators/Tenders	51-9193
Child, Family, and School Social Workers	21-1021	Correct. Treatment & Probation Officers Spec.	21-1092
Child, Family, and School Social Workers	21-1021	Correctional Officers and Jailers	33-3012
Chiropractors	29-1011	Correctional Officers, First-Line Superv./Mgrs	33-1011
Choreographers	27-2032	Correspondence Clerks	43-4021
Civil and Architectural Drafters	17-3011	Correspondents, News Analysts and Reporters	27-3020
Civil Engineering Technicians	17-3022	Cosmetologists, Hairdressers, and Hairstylists	39-5012
Civil Engineers	17-2051	Cost Estimators	13-1051
Claims Adjusters, Examiners, and Investigators	13-1031	Costume Attendants	39-3092
Cleaners of Vehicles and Equipment	53-7061	Counseling, Clinical, and School Psychologists	19-3031
Cleaning/Washing/Metal Pickling Equipment O/T	51-9192	Counselors, Social, & Religious Work., All Other	21-9099
Clergy	21-2011	Counter and Rental Clerks	41-2021
Clinical Laboratory and Medical Technicians	29-2012	Counter Attend., Café/Food Concess/Coffee Sh.	35-3022
Clinical Laboratory and Medical Technologists	29-2011	Couriers and Messengers	43-5021
Clinical, Counseling, and School Psychologists	19-3031	Court Reporters	23-2091
Coaches and Scouts	27-2022	Court, Municipal, and License Clerks	43-4031
Coating, Painting, and Decorating Workers	51-9123	Crane and Tower Operators	53-7021
Coating/Painting/Spraying Machine Setters, O/T	51-9121	Credit Analysts	13-2041
Coating/Painting/Spraying Machine Setters, O/T	51-9121	Credit Authorizers, Checkers, and Clerks	43-4041
Coatroom/Locker Room/Dressing Rm Attendants	39-3093	Criminal Investigators and Detectives	33-3021
Coil Winders, Tapers, and Finishers	51-2021	Criminal Justice/Law Enforcement Teachers, PS	25-1111
Coin/Vending/Amusement Machine Serv/Repair	49-9091	Crossing Guards	33-9091
Collectors, Tax Examiners, & Revenue Agents	13-2081	Crushing/Grinding/Polishing Machine S/O/T	51-9021
Comb. Food Prep. & Serv. Work, Inc. Fast Food	35-3021	Cultural Studies Area, & Ethnic Teachers, Post.	25-1062
Commercial and Industrial Designers	27-1021	Curators, Archivists, and Museum Technicians	25-4010
Commercial Pilots	53-2012	Customer Service Representatives	43-4051
Communications Equipment Operators, All Other	43-2099	Cutters and Trimmers, Hand	51-9031
Communications Teachers, Postsecondary	25-1122	Cutters, Welders, Solderers, and Brazers	51-4121
Community Assn, Property, & Real Estate Mgrs	11-9141	Cutting/Punching/Press Machine S/O/T, M/P	51-4031
Comp. Software Engineers, Systems Software	15-1032	Cutting/Slicing Mach. Setters/Operators/Tenders	51-9032
Comp., Benefits, & Job Analysis Specialists	13-1072	D	
Compl. Off., Ex. Agric, Con, Hlth/Safety, & Trans.	13-1041	Dancers	27-2031
Composers and Music Directors	27-2041	Data Comm. & Network Systems Analysts	15-1081
Computer and Information Scientists, Research	15-1011	Data Entry Keyers	43-9021
Computer and Information Systems Managers	11-3021	Database Administrators	15-1061
Computer Hardware Engineers	17-2061	Decorating, Painting, and Coating Workers	51-9123
Computer Operators	43-9011	Demonstrators and Product Promoters	41-9011
Computer Programmers	15-1021	Dental Assistants	31-9091
Computer Science Teachers, Postsecondary	25-1021	Dental Hygienists	29-2021
Computer Software Engineers, Applications	15-1031	Dental Laboratory Technicians	51-9081
Computer Specialists, All Other	15-1099	Dentists	29-1020
Computer Support Specialists	15-1041	Desktop Publishers	43-9031
Computer Systems Analysts	15-1051	Detectives and Criminal Investigators	33-3021
Computer Systems and Network Administrators	15-1071	Detectives and Investigators, Private	33-9021
Computer, ATM, & Office Machine Repairers	49-2011	Diagnostic Medical Sonographers	29-2032
Computer-Controlled Machine Tool Oper., M/P	51-4011	Dietetic Technicians	29-2051
Con. Trades/Extract. Work First-Line Sup/Mgrs	47-1011	Dietitians and Nutritionists	29-1031
Concierges	39-6012	Dining Room & Cafeteria Attend. & Bar Helpers	35-9011
Conciliators, Arbitrators, and Mediators	23-1022	Dirkey Operators, Rail Yard Engineers & Hostlers	53-4013
Concrete Finishers and Cement Masons	47-2051	Directors and Producers	27-2012
Conservation and Forest Technicians	19-4093	Directors, Religious Activities and Education	21-2021
Conservation and Forest Workers	45-4011	Dishwashers	35-9021
Conservation Scientists	19-1031	Dispatchers, Except Police, Fire, & Ambulance	43-5032
Construction and Building Inspectors	47-4011	Dispatchers, Police, Fire, and Ambulance	43-5031
Construction Laborers	47-2061	Distribution, Transportation & Storage Managers	11-3071
Construction Managers	11-9021	Dog Groomer	39-2021
Construction Trades & Related Workers, AO	47-4999	Door-To-Door Sales, News/St. Vendors, & Rel.	41-9091
Continuous Mining Machine Operators	47-5041	Drafters, Engin., & Mapping Tech., All Other	17-3099
Control & Valve Install/Repair, Ex. Mech. Door	49-9012	Dragline & Excavating & Loading Machine Oper.	53-7032
Convention and Meeting Planners	13-1121	Drama, Art, and Music Teachers, Postsecondary	25-1121

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Dredge Operators	53-7031	F	
Dressing Rm/Locker Room/Coatroom Attendants	39-3093	Fabric and Apparel Patternmakers	51-6092
Dressmakers, Tailors, and Custom Sewers	51-6052	Family and General Practitioners	29-1062
Drilling & Boring Machine Tool Setters, O/T, M/P	51-4032	Family and Marriage Therapists	21-1013
Driver/Sales Workers	53-3031	Farm and Home Management Advisors	25-9021
Dry-Cleaning and Laundry Workers	51-6011	Farm Equipment Mechanics	49-3041
Drywall and Ceiling Tile Installers	47-2081	Farm, Ranch, and Other Agricultural Managers	11-9011
E		Farmers and Ranchers	11-9012
Earth Drillers, Except Oil and Gas	47-5021	Farming, Fishing, & Forestry Workers, All Other	45-9099
Earth/ Atmos/Marine/Space Sci. Teachers, PS	25-1051	Farming/Fishing/Forestry Wrks., FL Sup/Mgrs	45-1011
Economics Teachers, Postsecondary	25-1063	Farmworkers, Farm and Ranch Animals	45-2093
Economists	19-3011	Farmworkers/Laborers, Crop/Nursery/Greenhse	45-2092
Editors	27-3041	Fashion Designers	27-1022
Education Admin., Elem. & Secondary School	11-9032	Fence Erectors	47-4031
Education Admin., Pre & Child Care Center/Prog.	11-9031	Fiberglass Laminators and Fabricators	51-2091
Education Administrators, Postsecondary	11-9033	File Clerks	43-4071
Education Teachers, Postsecondary	25-1081	Filling & Packaging Machine Operators/Tenders	51-9111
Education, and Religious Activities Directors	21-2021	Film and Video Editors	27-4032
Educational, Vocational, & School Counselors	21-1012	Financial Analysts	13-2051
Electric Motor, Power Tool, & Related Repairers	49-2092	Financial Examiners	13-2061
Electrical & Electronic Engineering Technicians	17-3023	Financial Managers	11-3031
Electrical & Electronic Equipment Assemblers	51-2022	Financial Specialists, All Other	13-2099
Electrical and Electronics Drafters	17-3012	Financial, Info., & Record Clerks, All Other	43-4999
Electrical Engineers	17-2071	Finishers, Coil Winders, and Tapers	51-2021
Electrical Power-Line Installers and Repairers	49-9051	Fire Alarm Systems and Security Installers	49-2098
Electrical/Electronic Equip Mech/Install/Repr, AO	49-2099	Fire Fighters	33-2011
Electrical/Electronics Install/Repair, Trans. Equip.	49-2093	Fire Fighting & Prev. Workers, FL Sup/Mgrs	33-1021
Electrical/Electronics Repair, Comm/Indus Equip.	49-2094	Fire Inspectors and Investigators	33-2021
Electrical/Electronics Repair, Pwrhse/Substa/Rly	49-2095	Fire, Police and Ambulance Dispatchers	43-5031
Electricians	47-2111	First-Line Sup./Mgrs of Non-Retail Sales Workers	41-1012
Electrician's Helpers	47-3013	First-Line Sup/Mgrs of Con. Trades/Extract. Work	47-1011
Electromechanical Equipment Assemblers	51-2023	First-Line Sup/Mgrs of Office & Admin. Support	43-1011
Electro-Mechanical Technicians	17-3024	First-Line Sup/Mgrs of Personal Serv. Workers	39-1021
Electronic Equipment Install/Repair, Motor Veh.	49-2096	First-Line Sup/Mgrs, Protective Serv. Work., AO	33-1099
Electronic Home Entertainm Equip. Install/Repair	49-2097	First-Line Superv./Mgrs of Correctional Officers	33-1011
Electronics Engineers, Except Computer	17-2072	First-Line Superv./Mgrs of Police & Detectives	33-1012
Elementary School Teachers, Ex.Special Ed.	25-2021	First-Line Superv./Mgrs of Retail Sales Workers	41-1011
Elevator Installers and Repairers	47-4021	Fish and Game Wardens	33-3031
Eligibility Interviewers, Government Programs	43-4061	Fish, Meat, and Poultry Cutters and Trimmers	51-3022
Embalmers	39-4011	Fitness Studies & Recreation Teachers, Post.	25-1193
Emergency Management Specialists	13-1061	Fitness Trainers and Aerobics Instructors	39-9031
Emergency Medical Technicians & Paramedics	29-2041	FL Sup/Mgr of Trans/Mat.-Mov. Mach & Veh Op	53-1031
Empl., Recruitment, & Placement Specialists	13-1071	FL Sup/Mgrs of Farming/Fishing/Forestry Wrks.	45-1011
Engine and Other Machine Assemblers	51-2031	FL Sup/Mgrs of Fire Fighting & Prev. Workers	33-1021
Engineering Managers	11-9041	FL Sup/Mgrs of Food Prep. & Serving Workers	35-1012
Engineering Teachers, Postsecondary	25-1032	FL Sup/Mgrs of Help/Labor/Mat. Movers, Hand	53-1021
Engineering Technicians, Ex. Drafters, All Other	17-3029	FL Sup/Mgrs of Housekping & Janitorial Workers	37-1011
Engineers, All Other	17-2199	FL Sup/Mgrs of Lndscap./Lawn Ser/Groundskp	37-1012
English Language & Literature Teachers, Post.	25-1123	FL Sup/Mgrs of Mechanics/Installers/Repairers	49-1011
Engravers and Etchers	51-9194	FL Sup/Mgrs of Production/Operating Workers	51-1011
Entertain. & Perform., Sports & Rel. Work., AO	27-2099	Flight Attendants	39-6031
Environ. Science & Protection Tech., Inc. Health	19-4091	Flight Engineers, Airline Pilots, and Copilots	53-2011
Environmental Engineering Technicians	17-3025	Floor Layers, Ex. Carpet, Wood, & Hard Tiles	47-2042
Environmental Engineers	17-2081	Floor Sanders and Finishers	47-2043
Environmental Scientists/Specialists, Inc. Health	19-2041	Floral Designers	27-1023
Etchers and Engravers	51-9194	Food and Agricultural Scientists	19-1010
Ethnic, Area, & Cultural Studies Teachers, Post.	25-1062	Food Batchmakers	51-3092
Excavating & Loading Machine & Dragline Oper.	53-7032	Food Cooking Machine Operators and Tenders	51-3093
Executive Secretaries & Admin. Assistants	43-6011	Food Prep. & Serv. Work Comb., Inc. Fast Food	35-3021
Exhibit and Set Designers	27-1027	Food Prep. & Serving Related Workers, AO	35-9099
Extraction Workers' Helpers	47-5081	Food Prep. & Serving Workers, FL Sup/Mgrs	35-1012
Extraction Workers, All Other	47-5099	Food Preparation Workers	35-2021
Extrud/Form Mach. S/O/T, Synthetic/Glass Fibers	51-6091	Food Processing Workers, All Other	51-3099
Extrud/Form/Pressing/Compacting Mach. S/O/T	51-9041	Food Science and Agricultural Technicians	19-4011
Extruding & Drawing Machine Setters, O/T, M/P	51-4021	Food Servers, Nonrestaurant	35-3041

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Food Service Managers	11-9051	History Teachers, Postsecondary	25-1125
Food/Tobacco Roast/Baking/ Drying Mach. O/T	51-3091	Hoist and Winch Operators	53-7041
Foreign Language & Literature Teachers, Post.	25-1124	Home and Farm Management Advisors	25-9021
Forensic Science Technicians	19-4092	Home Appliance Repairers	49-9031
Forest and Conservation Technicians	19-4093	Home Economics Teachers, Postsecondary	25-1192
Forest and Conservation Workers	45-4011	Home Health Aides	31-1011
Foresters	19-1032	Horse Groomer	45-2093
Forging Mach. Setters/Operators/Tenders, M/P	51-4022	Hostlers, Rail Yard Engineers, & Dinkey Operators	53-4013
Forklift Operators	53-7051	Hosts & Hostesses, Rest./Lounge/Coffee Shop	35-9031
Form/Extrud Mach. S/O/T, Synthetic/Glass Fibers	51-6091	Hotel, Motel, and Resort Desk Clerks	43-4081
Foundry Mold and Coremakers	51-4071	House Parent	39-9041
Freezing/Cooling Equipment Operators/Tenders	51-9193	Housekeeping & Janitorial Workers, FL Sup/Mgrs	37-1011
Freight and Cargo Agents	43-5011	Human and Social Service Assistants	21-1093
Funeral Attendants	39-4021	Human Resources Assis., Ex. Payroll & Timekp	43-4161
Funeral Directors	11-9061	Human Resources Managers	11-3040
Furnace/Kiln/Oven/Drier/Kettle Oper./Tenders	51-9051	Hydrologists	19-2043
Furniture Finishers	51-7021	I	
G		Illustrators/Painters/Sculptors & Other Fine Artists	27-1013
Gas Compressor & Gas Pumping Station Oper.	53-7071	Industrial and Commercial Designers	27-1021
Gas Plant Operators	51-8092	Industrial Engineering Technicians	17-3026
GED, Adult Literacy, & Remedial Ed. Teachers	25-3011	Industrial Engineers	17-2112
General and Family Practitioners	29-1062	Industrial Machinery Mechanics	49-9041
General and Operations Managers	11-1021	Industrial Production Managers	11-3051
Geography Teachers, Postsecondary	25-1064	Industrial Truck and Tractor Operators	53-7051
Geological & Mining Engin., Inc. Mining Safety	17-2151	Information and Record Clerks, All Other	43-4199
Geological and Petroleum Technicians	19-4041	Information and Systems Managers	11-3021
Geoscientists, Ex. Hydrologists & Geographers	19-2042	Information Clerks and Receptionists	43-4171
Glaziers	47-2121	Inspectors/Testers/Sorters/Samplers/Weighers	51-9061
Gluing/Cementing Machine Operators/Tenders	51-9191	Installation/Maintenance/Repair Workers, AO	49-9099
Golf Pro and Tennis Pro	27-2022	Installation/Maintenance/Repair Workers--Helpers	49-9098
Graders and Sorters, Agricultural Products	45-2041	Installers/Mechanics/Repairers, FL Sup/Mgrs	49-1011
Graduate Teaching Assistants	25-1191	Instructional Coordinators	25-9031
Graphic Designers	27-1024	Insulation Workers	47-2130
Grind/Lapping/Polish/Buf Mach.Tool S/O/T, M/P	51-4033	Insurance Appraisers, Auto Damage	13-1032
Grinding and Polishing Workers, Hand	51-9022	Insurance Claims and Policy Processing Clerks	43-9041
Grinding/Crushing/Polishing Machine S/O/T	51-9021	Insurance Sales Agents	41-3021
Groundskeeping and Landscaping Workers	37-3011	Insurance Underwriters	13-2053
Groundskp,Lndscap./Lawn Ser, FL Sup/Mgrs	37-1012	Interior Designers	27-1025
Gynecologists and Obstetricians	29-1064	Internists, General	29-1063
H		Interpreters and Translators	27-3091
Hairdressers, Hairstylists, and Cosmetologists	39-5012	Interviewers, Except Eligibility and Loan	43-4111
Hazardous Materials Removal Workers	47-4041	J	
Health Diagnosing & Treating Practitioners, AO	29-1199	Jailers and Correctional Officers	33-3012
Health Educators	21-1091	Janitorial & Housekeeping Workers, FL Sup/Mgrs	37-1011
Health Info. And Medical Records Technicians	29-2071	Janitors & Cleaners, Ex. Maids/Hsekpung Clean.	37-2011
Health Services and Medical Managers	11-9111	Jewelers & Precious Stone & Metal Workers	51-9071
Health Specialties Teachers, Postsecondary	25-1071	Job Analysis, Comp., & Benefits Specialists	13-1072
Healthcare Practitioners & Tech. Workers, AO	29-9099	Job Printers	51-5021
Healthcare Support Workers, All Other	31-9099	Judges, Magistrate Judges, and Magistrates	23-1023
Hearing Off., Admin. Law Judges, & Adjudicators	23-1021	K	
Heat Treating Equip. Setters, O/T, M/P	51-4191	Kindergarten Teachers, Ex. Special Education	25-2012
Heath & Safety Engineers, Ex. Mining Safety	17-2111	L	
Heating, AC, & Refrigeration Mechanics/Installers	49-9021	Laborers/Freight/Stock/Material Movers, Hand	53-7062
Help/Labor/Mat. Movers, Hand, FL Sup/Mgrs	53-1021	Landscape Architects	17-1012
Helpers, Construction Trades, All Other	47-3019	Landscaping and Groundskeeping Workers	37-3011
Helpers--Brick/Block/Stone/Tile & Marble Setters	47-3011	Lathe & Turning Machine Tool Setters, O/T, M/P	51-4034
Helpers--Carpenters	47-3012	Laundry and Dry-Cleaning Workers	51-6011
Helpers--Electricians	47-3013	Law Clerks	23-2092
Helpers--Extraction Workers	47-5081	Law Enforcement/Criminal Justice Teachers, PS	25-1111
Helpers--Installation/Maintenance/Repair Workers	49-9098	Law Teachers, Postsecondary	25-1112
Helpers--Painters/Paper/Plasterers/Stucco Mas.	47-3014	Lawn Ser/Lndscap./Groundskp, FL Sup/Mgrs	37-1012
Helpers--Pipelayers/Plumbers/Pipefitters/Steamf	47-3015	Lawyers	23-1011
Helpers--Production Workers	51-9198	Lay-Out Workers, Metal and Plastic	51-4192
Helpers--Roofers	47-3016	Leather and Shoe Workers and Repairers	51-6041
Highway Maintenance Workers	47-4051	Legal and Related Workers, All Other	23-9099

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Legal Assistants and Paralegals	23-2011	Medical and Clinical Laboratory Technologists	29-2011
Legal Secretaries	43-6012	Medical and Health Services Managers	11-9111
Legal Support Workers, All Other	23-2099	Medical and Public Health Social Workers	21-1022
Legislators	11-1031	Medical Appliance Technicians	51-9082
Lib., Museum, Training, & Other Ed. Work., AO	25-9199	Medical Assistants	31-9092
Librarians	25-4021	Medical Equipment Preparers	31-9093
Library Assistants, Clerical	43-4121	Medical Equipment Repairers	49-9062
Library Science Teachers, Postsecondary	25-1082	Medical Records & Health Info. Technicians	29-2071
Library Technicians	25-4031	Medical Scientists, Except Epidemiologists	19-1042
License, Court, and Municipal Clerks	43-4031	Medical Secretaries	43-6013
Licensed Practical & Licensed Vocat. Nurses	29-2061	Medical Transcriptionists	31-9094
Life Scientists, All Other	19-1099	Meeting and Convention Planners	13-1121
Life, Physical, & Social Science Tech., All Other	19-4099	Mental Health & Substance Abuse Social Work.	21-1023
Lndscap./Lawn Ser/Groundskp, FL Sup/Mgrs	37-1012	Mental Health Counselors	21-1014
Loading Machine & Excavating & Dragline Oper.	53-7032	Merchandise Displayers and Window Trimmers	27-1026
Loan Counselors	13-2071	Messengers and Couriers	43-5021
Loan Interviewers and Clerks	43-4131	Metal Workers and Plastic Workers, All Other	51-4199
Loan Officers	13-2072	Metal-Refining Furnace Operators and Tenders	51-4051
Locker Room/Coatroom/Dressing Rm Attendants	39-3093	Meter Readers, Utilities	43-5041
Locksmiths and Safe Repairers	49-9094	Microbiologists	19-1022
Locomotive Engineers	53-4011	Middle School Teachers, Ex. Special & Voc. Ed.	25-2022
Lodging Managers	11-9081	Milling & Planing Machine Setters, O/T, M/P	51-4035
Log Graders and Scalars	45-4023	Millwrights	49-9044
Logging Equipment Operators	45-4022	Mining & Geological Engin., Inc. Mining Safety	17-2151
M		Mining Machine Operators, Continuous	47-5041
Machine Feeders and Offbearers	53-7063	Mixing/Blending Mach. Setter/Operator/Tenders	51-9023
Machinists	51-4041	Mobile Heavy Equip. Mechanics, Ex. Engines	49-3042
Magistrates, Judges, and Magistrate Judges	23-1023	Mobile Home & Manufactured Building Installers	49-9095
Maids and Housekeeping Cleaners	37-2012	Model Makers, Metal and Plastic	51-4061
Mail Clerks & Mail Machine Op., Ex. Postal Serv.	43-9051	Model Makers, Wood	51-7031
Mail Superintendents and Postmasters	11-9131	Molders/Shapers/Casters, Ex. Metal & Plastic	51-9195
Maintenance and Repair Workers, General	49-9042	Molding/Coremaking/Casting Mach. S/O/T, M/P	51-4072
Maintenance Workers, Machinery	49-9043	Motel, Hotel, and Resort Desk Clerks	43-4081
Management Analysts	13-1111	Motion Picture Projectionists	39-3021
Managers, All Other	11-9199	Motor Vehicle Operators, All Other	53-3099
Manicurists and Pedicurists	39-5092	Motorboat Mechanics	49-3051
Manufactured Building & Mobile Home Installers	49-9095	Motorcycle Mechanics	49-3052
Mapping and Surveying Technicians	17-3031	Multi-Media Artists and Animators	27-1014
Marble and Tile Setters	47-2044	Multiple Machine Tool Setters, O/T, M/P	51-4081
Marine Oilers and Sailors	53-5011	Municipal, Court, and License Clerks	43-4031
Marine/Atmos./Earth/Space Sci. Teachers, PS	25-1051	Museum Technicians, Archivists, and Curators	25-4010
Market Research Analysts	19-3021	Music Directors and Composers	27-2041
Marketing Managers	11-2021	Music, Art, and Drama Teachers, Postsecondary	25-1121
Marriage and Family Therapists	21-1013	Musical Instrument Repairers and Tuners	49-9063
Massage Therapists	31-9011	Musicians and Singers	27-2042
Material Moving Workers, All Other	53-7199	N	
Material Rec./Sched./Dispatch/Distrib. Work, AO	43-5199	Natural Sciences Managers	11-9121
Materials Engineers	17-2131	Network and Computer Systems Administrators	15-1071
Materials Scientists	19-2032	Network Systems & Data Comm. Analysts	15-1081
Mathematical Science Occupations, All Other	15-2099	New Accounts Clerks	43-4141
Mathematical Science Teachers, Postsecondary	25-1022	News Analysts, Reporters and Correspondents	27-3020
Meat Cutters and Butchers	51-3021	Nonfarm Animal Caretakers	39-2021
Meat Packers and Slaughterers	51-3023	Nuclear Engineers	17-2161
Meat, Poultry, and Fish Cutters and Trimmers	51-3022	Nuclear Medicine Technologists	29-2033
Mechanical Door Repairers	49-9011	Nuclear Technicians	19-4051
Mechanical Drafters	17-3013	Numerical Tool & Process Control Programmers	51-4012
Mechanical Engineering Technicians	17-3027	Nursing Aides, Orderlies, and Attendants	31-1012
Mechanical Engineers	17-2141	Nursing Instructors & Teachers, Postsecondary	25-1072
Mechanics and Automotive Service Technicians	49-3023	Nutritionists and Dietitians	29-1031
Mechanics, Bus & Truck & Diesel Engine Spec.	49-3031	O	
Mechanics/Installers/Repairers, FL Sup/Mgrs	49-1011	Obstetricians and Gynecologists	29-1064
Media & Communication Equip. Workers, AO	27-4099	Occupational Health & Safety Specialists & Tech.	29-9010
Media and Communication Workers, All Other	27-3099	Occupational Therapist Aides	31-2012
Mediators, Arbitrators, and Conciliators	23-1022	Occupational Therapist Assistants	31-2011
Medical and Clinical Laboratory Technicians	29-2012	Occupational Therapists	29-1122

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Office & Admin. Support Workers, All Other	43-9199	Physicists	19-2012
Office & Admin. Support, First-Line Sup/Mgrs	43-1011	Physics Teachers, Postsecondary	25-1054
Office Clerks, General	43-9061	Pipefitters, Plumbers, and Steamfitters	47-2152
Office Machine Operators, Except Computer	43-9071	Pipelayers	47-2151
Office Machine, Computer, & ATM Repairers	49-2011	Pipelayers/Plumbers/Pipefitters/Steamf--Helpers	47-3015
Oil and Gas Rotary Drill Operators	47-5012	Placement, Empl., & Recruitment Specialists	13-1071
Oil and Gas Roustabouts	47-5071	Plant and System Operators, All Other	51-8099
Oil, Gas, and Mining Service Unit Operators	47-5013	Plasterers and Stucco Masons	47-2161
Operating Engineers & Other Con. Equip. Op.	47-2073	Plating & Coating Machine Setters, O/T, M/P	51-4193
Operations and General Managers	11-1021	Plumbers, Pipefitters, and Steamfitters	47-2152
Operations Research Analysts	15-2031	Podiatrists	29-1081
Ophthalmic Laboratory Technicians	51-9083	Police & Detectives, First-Line Superv./Mgrs	33-1012
Opticians, Dispensing	29-2081	Police and Sheriff's Patrol Officers	33-3051
Optometrists	29-1041	Police, Fire, and Ambulance Dispatchers	43-5031
Order Clerks	43-4151	Polish/Grind/Lapping/Buf Mach.Tool S/O/T, M/P	51-4033
Order Fillers and Stock Clerks	43-5081	Polishing/Crushing/Grinding Machine S/O/T	51-9021
Orderlies, Nursing Aides, and Attendants	31-1012	Political Science Teachers, Postsecondary	25-1065
Orthotists and Prosthetists	29-2091	Postal Service Clerks	43-5051
Outdoor Power Equip. & Other Sm Engine Mech. P	49-3053	Postal Service Mail Carriers	43-5052
Packaging & Filling Machine Operators/Tenders	51-9111	Postal Service Mail Sorters/Proc/Proc Mach. Op.	43-5053
Packers and Packagers, Hand	53-7064	Postmasters and Mail Superintendents	11-9131
Painters, Construction and Maintenance	47-2141	Postsecondary Teachers, All Other	25-1199
Painters, Transportation Equipment	51-9122	Poultry, Meat, and Fish Cutters and Trimmers	51-3022
Painters/Paper/Plasterers/Stucco Mas.--Helpers	47-3014	Pourers and Casters, Metal	51-4052
Painters/Sculptors/Illustrators & Other Fine Artists	27-1013	Power Distributors and Dispatchers	51-8012
Painting, Coating, and Decorating Workers	51-9123	Power Plant Operators	51-8013
Paper Goods Mach. Setters/Operators/Tenders	51-9196	Power Tool, Electric Motor & Related Repairers	49-2092
Paperhangers	47-2142	Precision Instrument/Equipment Repairers, AO	49-9069
Paralegals and Legal Assistants	23-2011	Prepress Technicians and Workers	51-5022
Paramedics & Emergency Medical Technicians	29-2041	Preschool Teachers, Except Special Education	25-2011
Park Ranger	33-9099	Press/Cutting/Punching Machine S/O/T, M/P	51-4031
Parking Enforcement Workers	33-3041	Pressers, Textile, Garment, & Related Materials	51-6021
Parking Lot Attendants	53-6021	Printing Machine Operators	51-5023
Parts Salespersons	41-2022	Printing Workers, All Other	51-5099
Patrol Officers, Police and Sheriff	33-3051	Private Detectives and Investigators	33-9021
Patternmakers, Fabric and Apparel	51-6092	Pro, Golf and Tennis	27-2022
Patternmakers, Metal and Plastic	51-4062	Probation Officers & Correct. Treatment Spec.	21-1092
Patternmakers, Wood	51-7032	Procurement Clerks	43-3061
Paving, Surfacing, & Tamping Equip. Operators	47-2071	Producers and Directors	27-2012
Payroll and Timekeeping Clerks	43-3051	Product Promoters and Demonstrators	41-9011
Pediatricians, General	29-1065	Production Workers' Helpers	51-9198
Pedicurists and Manicurists	39-5092	Production Workers, All Other	51-9199
Personal and Home Care Aides	39-9021	Production, Planning, and Expediting Clerks	43-5061
Personal Care and Service Workers, All Other	39-9099	Production/Operating Workers, FL Sup/Mgrs	51-1011
Personal Financial Advisors	13-2052	Promotions and Advertising Managers	11-2011
Personal Serv. Workers, First-Line Sup/Mgrs	39-1021	Proofreaders and Copy Markers	43-9081
Pest Control Workers	37-2021	Property, Real Estate, & Community Assn Mgrs	11-9141
Pesticide Handlers/Sprayers/Applicators, Veg.	37-3012	Prosthetists and Orthotists	29-2091
Petrol. Pump Sys. Oper/Refinery Oper/Gaugers	51-8093	Protective Service Workers, All Other	33-9099
Petroleum and Geological Technicians	19-4041	Pruners and Tree Trimmers	37-3013
Pharmacists	29-1051	Psychiatric Aides	31-1013
Pharmacy Aides	31-9095	Psychiatric Technicians	29-2053
Pharmacy Technicians	29-2052	Psychiatrists	29-1066
Philosophy & Religion Teachers, Postsecondary	25-1126	Psychology Teachers, Postsecondary	25-1066
Photographers	27-4021	Public Health and Medical Social Workers	21-1022
Photographic Equipment & Camera Repairers	49-9061	Public Relations Managers	11-2031
Photographic Process Workers	51-9131	Public Relations Specialists	27-3031
Photographic Processing Machine Operators	51-9132	Pump Operators, Except Wellhead Pumps	53-7072
Physical Scientists, All Other	19-2099	Punching/Cutting/Press Machine S/O/T, M/P	51-4031
Physical Therapist Aides	31-2022	Purchasing Agents and Buyers, Farm Products	13-1021
Physical Therapist Assistants	31-2021	Purchasing Agents, Ex. Whole., Retail, & Farm	13-1023
Physical Therapists	29-1123	Purchasing Clerk	43-3061
Physician Assistants	29-1071	Purchasing Managers	11-3061
Physicians and Surgeons, All Other	29-1069	Q	
		Quality Control Engineer	17-2112

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Quality Control Inspector	51-9061	Scouts and Coaches	27-2022
Quality Control Technicians	17-3026	Sculptors/Painters/Illustrators & Other Fine Artists	27-1013
R		Searchers, Title Examiners, and Abstractors	23-2093
Radiation Therapists	29-1124	Secondary Sch. Teachers, Ex. Spec. & Voc. Ed.	25-2031
Radiologic Technologists and Technicians	29-2034	Secret./Admin. Assis/Other Off. Sup. Work., AO	43-9999
Rail Car Repairers	49-3043	Secretaries, Ex. Legal, Medical, & Executive	43-6014
Rail Transportation Workers, All Other	53-4099	Securities/Commodities/Fin. Serv. Sales Agents	41-3031
Rail Yard Engineers/Dinkey Operators/Hostlers	53-4013	Security and Fire Alarm Systems Installers	49-2098
Railroad and Transit Police	33-3052	Security Guards	33-9032
Railroad Brake, Signal, and Switch Operators	53-4021	Self-Enrichment Education Teachers	25-3021
Railroad Conductors and Yardmasters	53-4031	Semiconductor Processors	51-9141
Rail-Track Laying & Maintenance Equip. Oper.	47-4061	Sep./Filter/Clarify/Precipitating/Still Mach. S/O/T	51-9012
Ranch, Farm and Other Agricultural Managers	11-9011	Septic Tank Servicers and Sewer Pipe Cleaners	47-4071
Ranchers and Farmers	11-9012	Service Station Attendants	53-6031
Real Estate Brokers	41-9021	Service Unit Operators, Oil, Gas, and Mining	47-5013
Real Estate Sales Agents	41-9022	Set and Exhibit Designers	27-1027
Real Estate, Property, & Community Assn Mgrs	11-9141	Sewer Pipe Cleaners and Septic Tank Servicers	47-4071
Receiving, Shipping and Traffic Clerks	43-5071	Sewers, Hand	51-6051
Receptionists and Information Clerks	43-4171	Sewing Machine Operators	51-6031
Recreation & Fitness Studies Teachers, Post.	25-1193	Shampooers	39-5093
Recreation Workers	39-9032	Sheet Metal Workers	47-2211
Recreational Therapists	29-1125	Sheriff and Police Patrol Officers	33-3051
Recreational Vehicle Service Technicians	49-3092	Ship Engineers	53-5031
Recruitment, Empl., & Placement Specialists	13-1071	Ship, Tank Car, and Truck Loaders	53-7121
Recyclable Material and Refuse Collectors	53-7081	Shipping, Receiving, and Traffic Clerks	43-5071
Refractory Materials Repairers, Ex. Brickmasons	49-9045	Shoe and Leather Workers and Repairers	51-6041
Refrigeration, Heating, & AC Mechanics/Installers	49-9021	Signal and Track Switch Repairers, Railroad	49-9097
Refuse and Recyclable Material Collectors	53-7081	Singers and Musicians	27-2042
Regional and Urban Planners	19-3051	Skin Care Specialists	39-5094
Registered Nurses	29-1111	Slaughtering and Meat Packers	51-3023
Rehabilitation Counselors	21-1015	Slicing/Cutting Mach. Setters/Operators/Tenders	51-9032
Reinforcing Iron and Rebar Workers	47-2171	Social and Community Service Managers	11-9151
Religion & Philosophy Teachers, Postsecondary	25-1126	Social and Human Service Assistants	21-1093
Religious Activities, and Education Directors	21-2021	Social Scientists & Related Workers, All Other	19-3099
Remedial Ed., Adult Literacy, & GED Teachers	25-3011	Social Work Teachers, Postsecondary	25-1113
Repairers/Mechanics/Installers, FL Sup/Mgrs	49-1011	Sociology Teachers, Postsecondary	25-1067
Reporters, News Analysts and Correspondents	27-3020	Solderers, Welders, Cutters, and Brazers	51-4121
Reservation/Trans. Ticket Agents & Travel Clerks	43-4181	Sorters and Graders, Agricultural Products	45-2041
Residential Advisors	39-9041	Sorters/Inspectors/Testers/Samplers/Weighers	51-9061
Respiratory Therapists	29-1126	Sound Engineering Technicians	27-4014
Respiratory Therapy Technicians	29-2054	Space and Atmospheric Scientists	19-2021
Retail & Wholesale Buyers, Ex. Farm Products	13-1022	Space/Atmos./Earth/ Marine Sci. Teachers, PS	25-1051
Retail Sales Workers, First-Line Superv./Mgrs	41-1011	Special Ed. Teachers, Pre./Kinder./Elem. Sch.	25-2041
Retail Salespersons	41-2031	Special Education Teachers, Middle School	25-2042
Revenue Agents, Tax Examiners, & Collectors	13-2081	Special Education Teachers, Secondary School	25-2043
Rolling Machine Setters/Operators/Tenders, M/P	51-4023	Speech-Language Pathologists	29-1127
Roofers	47-2181	Spraying/Painting/Coating Machine Setters, O/T	51-9121
Roofers' Helpers	47-3016	Stable Attendant	39-2021
Rotary Drill Operators, Oil and Gas	47-5012	Stationary Engineers and Boiler Operators	51-8021
Roustabouts, Oil and Gas	47-5071	Statistical Assistants	43-9111
S		Statisticians	15-2041
Safe and Locksmiths Repairers	49-9094	Steamfitters, Plumbers, and Pipefitters	47-2152
Safety & Health Engineers, Ex. Mining Safety	17-2111	Steel and Structural Iron Workers	47-2221
Sailors and Marine Oilers	53-5011	Stock Clerks and Order Fillers	43-5081
Sales and Related Workers, All Other	41-9099	Stonemasons	47-2022
Sales Engineers	41-9031	Storage, Transportation, & Distribution Managers	11-3071
Sales Managers	11-2022	Streetcar and Subway Operators	53-4041
Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	41-4011	Structural Iron and Steel Workers	47-2221
Sales Rep., Wholesale/Mfg, Ex. Tech./Sci. Prod.	41-4012	Structural Metal Fabricators and Fitters	51-2041
Samplers/Inspectors/Testers/Sorters/Weighers	51-9061	Stucco Masons and Plasterers	47-2161
Sawing Mach. Setters/Operators/Tenders, Wood	51-7041	Substance Abuse & Behavioral Dis. Counselors	21-1011
School Bus Drivers	53-3022	Substance Abuse & Mental Health Social Work.	21-1023
School, Clinical, and Counseling Psychologists	19-3031	Subway and Streetcar Operators	53-4041
School, Educational, & Vocational Counselors	21-1012	Surfacing, Paving, & Tamping Equip. Operators	47-2071
School, Family, and Child Social Workers	21-1021	Surgeons	29-1067

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Surgical Technologists	29-2055	Veterinary Technologists and Technicians	29-2056
Survey Researchers	19-3022	Video and Audio Equipment Technicians	27-4011
Surveying and Mapping Technicians	17-3031	Video and Film Editors	27-4032
Surveyors	17-1022	Vocational Education Teachers, Middle School	25-2023
Switchboard Operators, Inc. Answering Service	43-2011	Vocational Education Teachers, Postsecondary	25-1194
T		Vocational Education Teachers, Secondary Sch.	25-2032
Tailors, Dressmakers, and Custom Sewers	51-6052	Vocational, Educational, & School Counselors	21-1012
Tank Car, Truck, and Ship Loaders	53-7121	W	
Tapers	47-2082	Waiters and Waitresses	35-3031
Tapers, Coil Winders, and Finishers	51-2021	Watch Repairers	49-9064
Tax Examiners, Collectors, & Revenue Agents	13-2081	Water/Liquid Waste Treatment Plant/System Op.	51-8031
Tax Preparers	13-2082	Webmaster	15-1081
Taxi Drivers and Chauffeurs	53-3041	Weighers/Inspectors/Testers/Sorters/Samplers	51-9061
Teacher Assistants	25-9041	Weighers/Meas./Checkers/Samplers, Recordkp	43-5111
Teachers, Prim., Secondary, & Adult, All Other	25-3999	Welders, Cutters, Solderers, and Brazers	51-4121
Team Assemblers	51-2092	Welding/Soldering/Brazing Machine Setters, O/T	51-4122
Technical Writers	27-3042	Wellhead Pumpers	53-7073
Telecomm. Equip. Install/Repair, Ex. Line Install	49-2022	Wholesale & Retail Buyers, Ex. Farm Products	13-1022
Telecommunications Line Installers & Repairers	49-9052	Wildlife Biologists and Zoologists	19-1023
Telemarketers	41-9041	Window Trimmers and Merchandise Displayers	27-1026
Telephone Operators	43-2021	Woodworkers, All Other	51-7099
Tellers	43-3071	Woodworking Machine Setters, O/T, Ex. Sawing	51-7042
Tennis Pro and Golf Pro	27-2022	Word Processors and Typists	43-9022
Terrazzo Workers and Finishers	47-2053	Writers and Authors	27-3043
Testers/Inspectors/Sorters/Samplers/Weighers	51-9061	Z	
Textile Cutting Machine Setters/Oper./Tenders	51-6062	Zoologists and Wildlife Biologists	19-1023
Textile Knitting & Weaving Machine Setters, O/T	51-6063		
Textile Winding/Twist/Drawing Out Mach. S/O/T	51-6064		
Textile/Apparel/Furnishings Workers, All Other	51-6099		
Ticket Takers, Ushers, and Lobby Attendants	39-3031		
Tile and Marble Setters	47-2044		
Timekeeping and Payroll Clerks	43-3051		
Tire Repairers and Changers	49-3093		
Title Examiners, Abstractors, and Searchers	23-2093		
Tool and Die Makers	51-4111		
Tool Grinders, Filers, and Sharpeners	51-4194		
Tour Guides and Escorts	39-6021		
Track Switch and Signal Repairers, Railroad	49-9097		
Traffic Technicians	53-6041		
Training and Development Specialists	13-1073		
Trans. Attendants, Ex. Flight Attend./Bag Porters	39-6032		
Trans/Mat.-Mov. Mach & Veh Op, FL Sup/Mgrs	53-1031		
Transit and Railroad Police	33-3052		
Translators and Interpreters	27-3091		
Transportation Inspectors	53-6051		
Transportation Workers, All Other	53-6099		
Transportation, Storage, & Distribution Managers	11-3071		
Travel Agents	41-3041		
Tree Trimmers and Pruners	37-3013		
Trimmers and Cutters, Hand	51-9031		
Truck & Bus Mechanics & Diesel Engine Spec.	49-3031		
Truck Drivers, Heavy and Tractor-Trailer	53-3032		
Truck Drivers, Light or Delivery Services	53-3033		
Truck, Tank Car, and Ship Loaders	53-7121		
Tuners and Musical Instrument Repairers	49-9063		
Typists and Word Processors	43-9022		
U			
Upholsterers	51-6093		
Urban and Regional Planners	19-3051		
Ushers, Lobby Attendants, and Ticket Takers	39-3031		
V			
Vehicle & Mobile Equip. Mech/Install/Repair, AO	49-3099		
Vending/Coin/Amusement Machine Serv/Repair	49-9091		
Vet. Assistants & Laboratory Animal Caretakers	31-9096		
Veterinarians	29-1131		

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